



AMMUNITION

SINOXID

Export



Rheinisch-Westfälische Sprengstoff-
Actien-Gesellschaft

Nürnberg

Established 1856.

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SINOXID



General Conditions.

Prices and discounts are subject to confirmation at time of placing order.

They are granted on the condition that goods will not be retailed below.

All goods are forwarded for account and at the risk of consignees or purchasers.

We deliver f.o.b. German Port any orders of the net value of £ 50.— and upwards, otherwise f.o.r. German Port or Border Station. Packing is included, zinc lining—if required—charged at costprice. The sending by post of cartridges, cartridge cases, and/or percussion caps is forbidden under the international postal regulations.

Terms:

2% discount for cash if sent with order or paid not later than two weeks after the despatch of goods; otherwise net cash for payment within 30 days after despatch of goods.

Contracts to be fulfilled in Nürnberg.

All goods supplied remain the property of Rheinisch-Westfälische Sprengstoff A.-G. Nürnberg until payment has been received for them or checks been honoured.

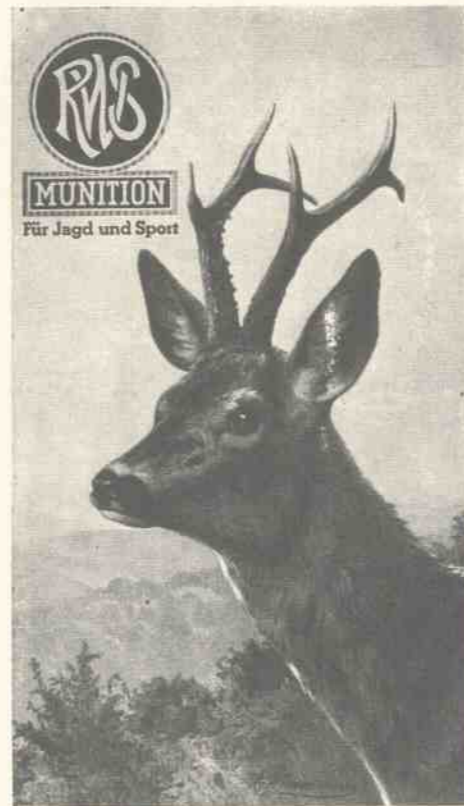
Competency of court is Nürnberg.

This catalogue does not cover our whole line. Should prices be required on cartridges not shown in it, please ask for full information or send in your order.

Table of approximate weights and measurements of the most current types of ammunition

Description	per Mille net kg	Packing Cases				Measurements cm
		of Mille	Nt. Weight kg	Gr. Weight kg	zinc lined Gr. Weight kg	
Percussion Caps						
for Muzzle Loading Guns, ribbed, unlined, in card-board boxes	0.120	250	30.0	41.0	48.0	86×86×27
do., English light pattern, in card-board boxes	0.130	250	33.0	44.0	46.0	86×86×27
in tin boxes	0.135	250	46.0	57.0	59.0	80×44×24
Top Hat Caps, with 4 slits, large size, in card-board boxes	0.500	50	25.0	35.0	37.0	78×41×24
in tin boxes	0.540	50	27.0	34.0	36.0	58×32×27
6.45 mm, flat-based	0.295	100	30.0	35.0	36.0	41×35×25
5.5 mm, flat-based	0.275	100	27.5	34.0	35.5	55×32×24
Primers VI	1.055	50	52.5	59.5	61.0	60×31×38
Flobert Cartridges						
6 mm B. B. Caps	1.635	50	31.0	38.0	39.5	59×32×28
9 mm B. B. Caps	5.490	10	55.0	59.5	60.5	51×30×22
6 mm Saloon Shot, Single Charge	2.070	20	41.5	46.5	47.5	61×29×19
9 mm Saloon Shot, Single Charge	6.470	10	64.0	71.5	73.0	58×32×27
9 mm Saloon Shot, Double Charge	9.800	5	49.0	53.0	54.0	49×29×25
6 mm Blanks, crimped (short type)	0.550	50	27.0	33.0	34.0	51×30×22
6 mm Bosquette A II	1.940	25	48.5	52.5	53.5	49×29×25
.22 Rim Fire Cartridges						
Short, Smokeless	2.790	10	27.0	31.0	31.5	43×25×21
Long, Smokeless	2.950	10	29.4	33.0	34.0	44×29×21
Long Rifle, Smokeless	3.770	10	37.4	43.0	44.0	50×36×19
Extralong, Smokeless	3.920	10	39.2	45.0	46.0	49×36×21
Automatic Pistol Cartridges						
6.35 mm Solid	5.500	10	55.0	61.0	62.0	60×27×22
7.65 mm Solid	8.300	10	83.0	90.0	94.0	58×33×25
7.65 mm Mauser Solid, without clips	10.300	5	54.0	59.0	61.0	58×28×25
C. F. Revolver Cartridges						
.320 Ball	7.310	10	73.0	81.0	82.5	54×32×24
.380 Ball	10.940	5	54.7	60.5	61.5	47×32×23
.320 Blanks	2.640	20	52.6	60.5	62.0	58×32×27
S & W .32 Short, Ball	7.770	10	77.6	84.5	86.0	54×32×24
S & W .38 Short, Ball	12.740	5	63.7	71.0	72.0	47×32×23
S & W .32 Long, Ball	8.620	10	86.2	94.0	96.0	59×32×28
S & W .38 Special, Ball	12.960	5	65.0	72.0	73.0	49×32×26
Empty Brass Shells						
12 bore, 63 mm long	24.400	2 1/2	61.0	73.0	76.0	100×46×28
16 bore, 63 mm long	30.400	3	61.2	73.0	76.0	100×46×28
20 bore, 63 mm long	19.600	3	53.8	69.0	71.5	100×42×30
Empty Paper Cartridge Cases						
12 bore "Heart" Brand	7.700	10	77.0	101.0	106.0	98×76×54
16 bore "Heart" Brand	7.000	10	70.0	92.0	96.0	92×74×50
12 bore "U" red Brand	11.400	5	57.0	74.0	77.0	98×50×40
16 bore "U" red Brand	10.000	5	50.0	65.0	67.5	90×48×40
20 bore "U" red Brand	9.000	5	45.0	58.0	61.0	78×50×40
Loaded Shotgun Cartridges						
12 bore "Tiger", with shot	51.000	1	51.0	57.0	59.0	60×32×26
16 bore "Tiger", with shot	43.000	1	43.0	49.0	50.0	54×32×24
16 bore "Tiger", without shot	15.000	1	15.0	21.0	22.0	54×32×24
Air Gun Pellets						
4 1/2 mm pointed 500 s.	0.550	100	54.0	61.0	—	50×36×18
4 1/2 mm pointed 100 s.	0.590	100	58.0	64.5	—	54×38×18
4 1/2 mm Diabolo 500 s.	0.550	100	54.0	61.0	—	50×36×18
4 1/2 mm Diabolo 100 s.	0.590	100	58.0	64.5	—	54×38×18
5 1/2 mm Diabolo 500 s.	0.940	50	47.0	52.5	—	46×32×20
6 1/2 mm 500 s.	1.070	50	53.5	59.0	—	46×32×20

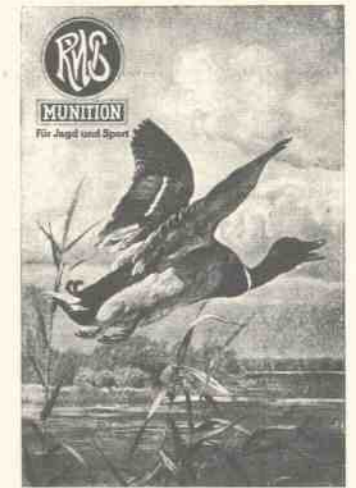
Any further weights and measurements required for estimating cif. prices will be supplied on application.



Experience of almost a century and successful pioneering in many directions in the manufacture are the foundation of the popularity of RWS Ammunition. The letters RWS in connection with ammunition have become a recognized mark for unsurpassed quality, highest efficiency and unparalleled regularity. A wonderful improvement of great importance is the invention and introduction of the SINOXID priming composition which is now used in connection with almost all of the RWS products. This innovation, a German invention, is the result of many years' exhaustive research work. It is composed of entirely new basic elements and embodies every possible refinement of new manufacturing methods. As a product on the top of its class it shows new features and unsurpassed efficiency, thus branding it the most important improvement since the introduction of priming compositions and propulsive agents. The epoch-making nature of this invention, which can be universally used to entire satisfaction in mass production, lies in the

ELIMINATION OF THE USE OF FULMINATE OF MERCURY.

This results in some further merits which will roughly be explained here-with.—As a priming composition without any fulminate of mercury, SINOXID appeared on the market as the first of this kind which had stood the test. One of its chief-advantages is the elimination of the vapour of Fulminate of Mercury which was always found very troublesome in Indoor Shooting. In certain circumstances, especially when shooting with .22 Automatic Pistols, the reduction of the development of smoke by the use of SINOXID priming is found a distinct advantage, because it allows quicker shooting. The formation of residues of the priming matter also is reduced by its use, which gives a better guarantee for the perfect functioning of these weapons.



PREVENTION OF RUST

A natural demand nowadays put on every ammunition is the Prevention of Rust. This demand is fully met by SINOXID priming, because SINOXID Cartridges, if exclusively used, will cover the interior of the barrels with a grey, evenly distributed coating which protects it from rust, even if the barrel is stored in such a damp place that the outside is rusted. They must, however, not be considered as a universal preventive against rust, if the barrels are subjected to

direct and long influence of rain, snow, or dew. In this case, the weapons must be treated in the usual manner.

EROSION

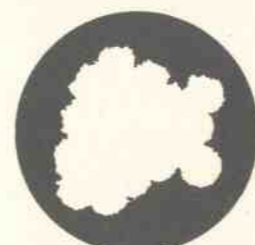
SINOXID Ammunition also prevents the erosion of the barrel. Its exclusive use ensures maximum life of the barrels with lasting retention of Shooting efficiency, as will best be demonstrated by the illustrations on this page.



**Mirror reproduction
of a small-bore rifle
after shooting
250,000 of .22 (R)
brand Long Rifle
SINOXID Cartridges.**

The barrel is as bright as new, no erosion, leaving the rifle with its original excellent precision, even after such a tremendous demand.

After 250,000 rounds.



each 50 shot-grouping
represents 500 rings out
of 500 possibles



UNIMPAIRED EFFICIENCY AFTER PROLONGED STORAGE

The excellent efficiency of SINOXID Ammunition will not suffer even under the most unfavourable climatic conditions, neither in the cold and foggy regions of the north nor in the damp and hot depression of the tropics or the glowing heat of the desert. SINOXID Am-

munition, therefore, is the ammunition that should be used for Big Game Hunting in the tropics, where the hunters, more than anywhere else, are dependent on the reliability of their ammunition.

INSIST ON SINOXID CARTRIDGES ALWAYS

SINOXID priming is covered by patents in all civilised states. Therefore every ammunition bearing this trademark will give you the guarantee that it is provided with this most modern priming composition.

IN COMPETITION OF THE NATIONS

at the Olympic Games and at the International Competitions for the World's Championships the following results in small-bore and Pistol Shooting have been attained with SINOXID Cartridges:

1937 World's Championship at Helsinki

2 World's Championships 1 new World's record

1936 Olympic Games at Berlin

All three Gold medals 1 Bronze medal
2 Silver medals

1935 World's Championship at Rome

2 new World's records 3 second places
3 World's Championships 3 third places

1933 World's Championship at Granada

4 World's Championships 4 second places
2 third places

SINOXID

SINOXID
 THE SECRET OF THE CONTINUED
 POPULARITY OF ALL RWS AMMUNITION

Oil-tight Pistol Cartridges



RWS
SINOXID

No loss of accuracy even after lying in an oil bath for a whole year.

If, when shooting with automatic pistols, trouble arises in the repeating mechanism, shots are weak, etc., or if the cartridge case or bullet jams in the barrel, the reason will nearly always be found to be that oil has penetrated into the cartridge and phlegmatized the powder. Frequently automatic pistols which are carried or stored with cartridges in the barrel and magazine, are much too heavily greased, the result being that after some little time, the oil or grease permeates the inner part of the powder chamber through the unavoidable hairfine interstices between the bullet and the case (and/or percussion cap and case). Admittedly the traces of oil are generally only minute, but they are sufficient under certain conditions to phlegmatize the powder; that is to say, to make its inherent energy entirely or partly ineffective when the shot is fired. A cartridge of this kind renders the weapon useless in moments of danger.

After tests extending over many years, we have succeeded in making SINOXID pistol cartridges in such a way that they prevent the penetration of oil into the inner part of the cartridge, even if the oil is of such a nature as to destroy ordinary protective lacquer coatings after a time. Tests have shown that oil-resisting SINOXID Pistol cartridges do not lose their accuracy even after lying in an oil bath for a year or more.

How can oil-tight Pistol Cartridges be recognized?

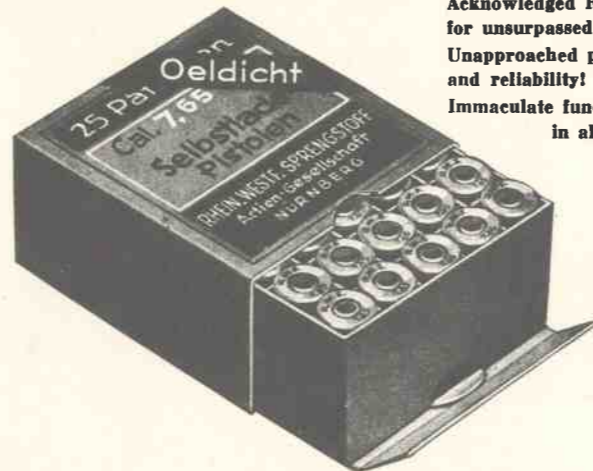
By the appearance of the cartridge and by the packing. The interstices between the bullet and the case (and/or percussion cap and case) are closed up by an impermeable cover of red lacquer. The packing is clearly marked with the words "Oeldicht" and SINOXID which alone give you the guarantee to obtain the "oiltight RWS Pistol Cartridges".



SINOXID

Pistol Cartridges OILTIGHT

Acknowledged Repute
for unsurpassed quality!
Unapproached precision
and reliability!
Immaculate functioning
in all pistol models!



6.35 mm (.25)



7.65 mm (.32) Parabellum



7.65 mm (.32)



7.65 mm (.32) Mannlicher

Calibre	Description	In boxes of
6.35 mm (.25)	.....	25
7.65 mm (.32)	.....	25
7.65 mm (.32)	Parabellum	25
7.65 mm (.32)	Mannlicher	50
7.65 mm (.32)	Mannlicher in clips	20



SINOXID

Pistol Cartridges OILTIGHT



20
Patronen für Selbstlade-Pistolen
MAUSER CAL. 7,63
Auf Ladestreifen (on clips)

Diese Patronen sind besonders für Mauser-Selbstlade-Pistolen Cal. 7,63
bestimmt. Sie sind mit großer Sorgfalt aus bestem Material hergestellt und
Verwendung allerbesten Funktion in allen Mauser-Waffen, welche für die
Präzision und zuverlässige Kal. 7,63 eingerichtet sind. Sie enthalten ein
Mauser-Patent-SINOXID-Zündetzmittel, welches für die
Verlässlichkeit der Waffe unverwundbar ist und ihre Lebensdauer
verlängert.
RHEINISCH-WESTFÄLISCHE SPRENGSTOFF-
FABRIK AG. SOEST, N. O. R. W. G.



7.63 mm (.30) Mauser

**Unexcelled
in Quality, Functioning, and Reliability.**

Calibre	Description	In boxes of
7.63 mm (.30)	Mauser without clips	50
7.63 mm (.30)	Mauser in clips	20



Pistol Cartridges

SINOXID



7.63 mm (.30) Mauser in Clip



9 mm (.38) Short



9 mm (.38) Long



9 mm (.38) Parabellum



.45 Colt ACP.

Calibre	Description	In boxes of
9 mm (.38)	Short	25
9 mm (.38)	Long	25
9 mm (.38)	Mauser without clips	50
9 mm (.38)	Mauser in clips	20
9 mm (.38)	Parabellum without clips	50
9 mm (.38)	Parabellum in clips	20
9 mm (.38)	Bergmann, Bayard, without clips	50
9 mm	Steyr without clips	50
9 mm	Steyr in clips	16
.38	Colt automatic	50
.45	Colt automatic	50

Pistol Cartridges



SINOXID

Blank Cartridges with Papermaché Bullets, an RWS speciality, will function with complete satisfaction in all German and foreign types of pistols.

Illustration	Calibre	Description	In boxes of
	6.35 mm (.25)	Paper Bullet, repeating	25
	6.35 mm (.25)	Turned-in, non-repeating (Pistol only to be used, as Single Loader)	25
	7.65 mm (.32)	Paper Bullet, repeating	25
	7.65 mm (.32)	Turned-in, non-repeating (Pistol only to be used as Single Loader)	25

Dummy Cartridges nickelled, for Drilling

Calibre	Description	In boxes of
6.35 mm (.25)	. . . . .	25
7.65 mm (.32)	. . . . .	25
7.65 mm (.32)	Parabellum	25
7.63 mm (.30)	Mauser	50
9 mm (.38)	Short	25
9 mm (.38)	Parabellum	50

.22 Rim Fire Cartridges for Automatic Weapons

For .22 Automatic rifles and pistols we supply Rim Fire Cartridges .22 Long Rifle and Short of a special construction adapted to the special use. They are made with nickelled shells and marked by a green stripe over the packing box. (See page 24.)



Pistol Cartridges

OILTIGHT

Record Score of the Belgium Champion,
Monsieur Arsène Laitem,
achieved in 1938 with Pistol Cartridges RWS.



Fired at a distance of 25 m with a
Walther-Pistol Model PP cal. 7.65 mm

1/2 natural size



ACORN

Flobert Cartridges

SINOXID



ACORN

A STANDARD PRODUCT OF
WORLD-RENOWNED QUALITY



No. 1 = 6 mm Bulleted Breech Caps



6 mm Single Charge

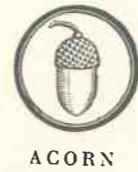


No. 1 = 6 mm Conical Breech Caps



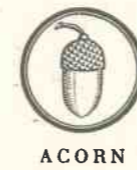
6 mm Double Charge

Description	In boxes of
B. B. Caps	100
C. B. Caps	100
B. B. Caps with powder	100
C. B. Caps with powder	100
Shot Cartridges, single charge	100
Shot Cartridges, single charge smokeless	100
Shot Cartridges, double charge	100
Shot Cartridges, double charge smokeless	100



Flobert Cartridges

SINOXID



Blank Cartridges for Alarm Pistols and Revolvers



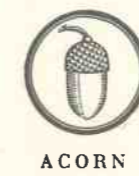
6 mm Crimped (Short type)



6 mm Turned-in (Long type)

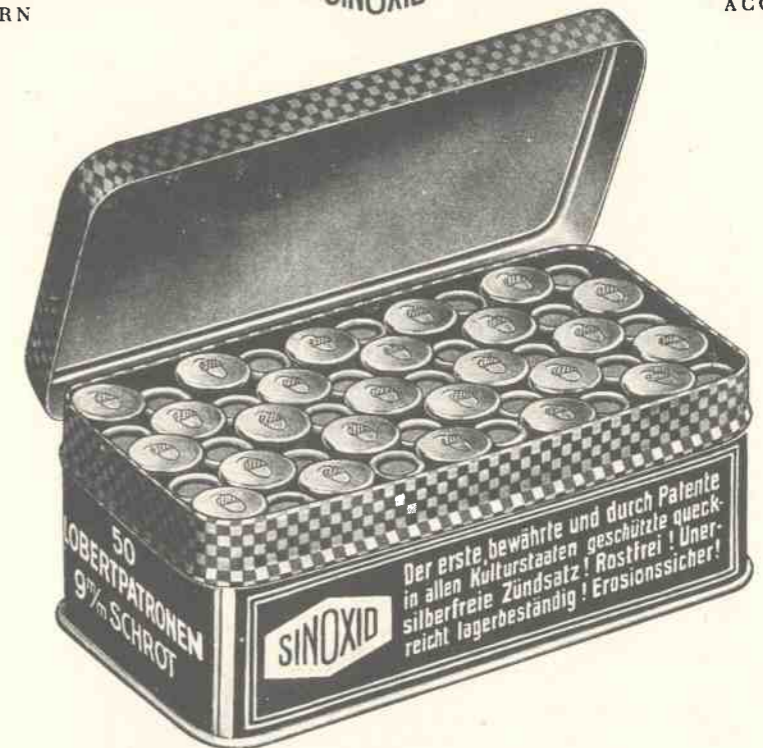
As a Blank Cartridge especially suited for Alarm Weapons on account of its loud report, the 6 mm turned-in type, without powder charge, as shown below, is recommended.

6 mm Calibre	Colour of label	In boxes of
Blank Cartridges		
Crimped (short) without powder charge	red	100
Crimped (short) without powder charge	red	50
Turned-in (long) without powder charge	green	100
Turned-in (long) without powder charge	green	50
Turned-in (long) with powder charge	blue	100
Turned-in (long) with powder charge	blue	50



Flobert Cartridges

SINOXID



No. 3 = 9 mm Round Bullet



No. 3 = 9 mm Conical Bullet

9 mm Calibre	In boxes of
Round Bullet	50
Conical Bullet	50
Round Bullet with powder	50
Conical Bullet with powder	50
Shot Cartridges, single charge	50
Shot Cartridges, single charge smokeless	50
Shot Cartridges, double charge 45 mm long (normal)	50
Shot Cartridges, double charge 45 mm long (normal) smokeless	50
Shot Cartridges, double charge 40 mm long	50
Shot Cartridges, double charge 40 mm long smokeless . . .	50



Flobert Cartridges
SINOXID



9 mm Shot



9 mm Double Charge
45 mm long (normal)



9 mm Double Charge
40 mm long

System Bosquette with double base

RUSTLESS



6 mm normal size
type C 3 for Flobert Rifles



9 mm normal size
type L 2 for Flobert Rifles



6 mm special size
type A 2
for Precision Rifles

Calibre and Description	In boxes of
6 mm Conical Bullet, type C 3	250/100
6 mm Conical Bullet, type A 2 etc.	250/100
9 mm Conical Bullet, type L 2	50



SINOXID

The Championships
of Germany in 1938:

- 15 German Championships**
- 8 New German Records**
- 2 World Records beaten**

The finale of a very successful
year for the

German Master Cartridge
"R" Brand

Records gained with the German Master Cartridge in 1938

on 10 ring international target, at 50 meters distance



Competitions for Small bore, all 3 positions:

World's Record at Helsinki 1937: 1158 ex 1200, Mazoyer-France

1157 ex 1200 Germany—Argentine best result

1156 ex 1200 International Shooting
Competition at Budapest best result

Prone Position:

World's Record at Rome 1935: 398 ex 400, Durand-France

396 ex 400 Germany—Argentine best result

396 ex 400 Germany—USA—England best German result

Kneeling Position:

World's Record at Rome 1935: 389 ex 400, Lokotar-Estonia

391 ex 400 Germany—Argentine best result

389 ex 400 International Shooting
Competition at Budapest best result

Standing Position:

World's Record at Helsinki 1937: 380 ex 400, Mazoyer-France

377 ex 400 Germany—Italy best result

375 ex 400 International Shooting
Competition at Budapest best result



Championship of Sweden 1938

Small bore, prone position:

394 ex 400
G. Andersson, Champion

standing position:

351 ex 400
Siegf. Larsson, Champion

Target Pistol:

546 ex 600
T. Ullman, Champion

Championship of Belgium 1938

Small bore, 3 positions:

570 ex 600
L. Lafortune, Champion

Target Pistol:

543 ex 600 (Belg. record)
M. Lafortune, Champion

Rapid Fire automatic pistol shooting:

The 3 best scores were gained with "R" brand.

Master performances

with Target Pistol:

World's Record Helsinki 1937: 555 ex 600, T. Ullman-Sweden
"R" brand

546 ex 600	Championship of Sweden	best result
545 ex 600	Germany—Argentine	best Argent. Shot
543 ex 600 (Belg. record)	Championship of Belgium	best result
536 ex 600	Germany—Italy	first winner

with Rapid Fire automatic pistol:

72 scores, no penalty points, German Championship
54 scores, no penalty points, Germany—Italy
54 scores, no penalty points, Intern. Shooting Comp. at Budapest







Rim Fire Cartridges .22 Smokeless



The boxes with perforated containers keep each cartridge separate.

For all Small bore Rifles and Target Pistols

Description	Range	In boxes of 50	Type of bullets
 * .22 Long Rifle	50 metres and more	red boxes	Solid lead bullets Solid lead bullets, galvanised
 .22 Long Rifle	50 metres and more	red boxes	Hollow Point bullets
 .22 Long Rifle (with reduced charge for Indoor Shooting)	up to 25 metres	dark blue boxes	Solid lead bullets (Distinguished by a groove round the case)
 Z .22 (with extra reduced charge) for Indoor Shooting	up to 20 metres	light blue boxes	Solid lead bullets (brass-plated, cases)

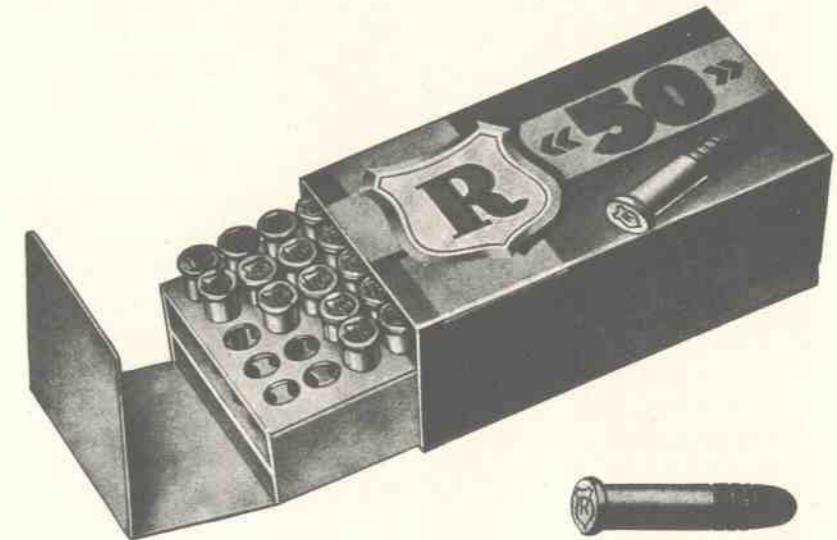
.22 "R" Brand SINOXID Cartridges do not contain any fulminate of mercury. They are, therefore, the most hygienic cartridges especially for "Indoor" Shooting.

* NB. For special cartridges for the use with automatic weapons see page 24.



Rim Fire Cartridges .22

Special Type R «50»



.22 Long Rifle, with solid lead bullet.



A new cartridge for experienced and real champions using the most up to date heavy match-rifles. This cartridge is to the best advantage adapted to the peculiarities and the sensitiveness of this special type of weapon. By its introduction it gives the crack shots the choice of two cartridges. The ordinary .22 Long Rifle cartridge is not supposed to be replaced by this new cartridge.



Rim Fire Cartridges .22 Smokeless

SINOXID

For .22 Automatic Pistols, Rifles, and Revolvers

Description	In boxes of 50	Type of Bullet
 .22 Long Rifle for Automatic Weapons (rifles and pistols)	Red boxes with green stripes	Solid lead bullets (Nickelled Cases)
 .22 Short for Automatic Weapons (rifles and pistols)	Red boxes with green stripes	Solid lead bullets (Nickelled Cases)

For automatic weapons (rifles and pistols), constructed to shoot .22 Long Rifle ammunition, we recommend the use of the above Long Rifle cartridges. They are specially made for this purpose and can be recognized by their nickelled cases.











.22 Short Rim Fire Cartridges (with nickelled cases) for automatic rifles and pistols are chiefly intended for the new model of .22 Walther-Olympia-Pistol. At the Olympic Games 1936 in Berlin all the 3 Gold medals for Rapid fire shooting were obtained by the use of our above .22 Short Cartridges for Automatic Pistols, in connection with the Walther-Olympia-Pistol.

Rim Fire Cartridges .22 Smokeless



SINOXID

Various other types:

Description	In boxes of 50	Type of bullet
 .22 Short	red boxes	Solid lead bullets
 .22 Short	red boxes	Hollow point bullets
 .22 Short (reduced Charge) for Indoor Shooting	blue boxes	Solid lead bullets (case marked by a groove)
 .22 Long	red boxes	Solid lead bullets
 .22 Long	red boxes	Hollow point bullets
 .22 extra long	red boxes	Solid lead bullets Hollow point bullets
 .22 automatic	brown boxes	Solid lead bullets Hollow point bullets (For American automatic Rifles Mod. 1903)
 .22-7-45	red boxes	Solid lead bullets Hollow point bullets (For American Rifles Mod. 90 and other weapons)
 .22 Long	green boxes	Shot Cartridges (Total copper) Smokeless
 .22 Blank Cartridges	white boxes	Blank Cartridges for Small bore Rifles, Smokeless

R Rim Fire Cartridges .32 and other calibres and other calibres



.32 Short Ball Cartridge



.32 Long Ball Cartridge



.350 (9 mm) Ball Cartridge pointed type



.350 (9 mm) Shot Cartridge 45 mm long

Loaded with Black Powder

Calibre	Description	In boxes of
.32 Short . . .	with lead bullets	50
.32 Long . . .	with lead bullets	50
.38 Short . . .	with lead bullets	50
*.350 (9 mm) .	with lead bullets, pointed	50
.350 (9 mm) .	Shot Cartridge 45 mm long	50
.350 (9 mm) .	Shot Cartridge 54 mm long	50

* with round lead bullet, if desired.

Cartridges for Adaptors "N" brand

Central Fire, smokeless, Non-Corrosive

in boxes of 50



D. R. P. 505761

.22 with solid lead bullets
.22 with hollow point bullets

C. F. Revolver Cartridges



.320 Ball Cartridge



.380 Ball Cartridge



.320 Shot Cartridge



.380 Ball Cartridge Long Type

For use in Alarm weapons of any kind.



.320 Blank Cartridge

Loud report.

SINOXID

Central Fire Revolver Cartridges

SINOXID

Description	In boxes of	Black Powder		
		Ball	Blank	Shot
.320	50	Ball	Blank	Shot
.380	50	Ball	Blank	Shot
.442	50	Ball	Blank	Shot
.450	50	Ball	Blank	Shot
*.455 Eley	50	Ball	—	—
.500	50	Ball	—	—
.320 long	50	Ball	—	—
.380 long	50	Ball	—	—

* Either with round-nosed bullet and black powder charge or flat-nosed smokeless.



Cartridges for Revolvers, Carbines and Rifles



Morris .297/230 short
with lead bullet



Morris .297/230 long
with lead bullet



Velodog 5.75 mm
with copper-mantled bullet



Rook rifle .300 long
with lead bullet



Nagant russ. 7.62 mm
with nickel-mantled bullet



Lebel 8 mm, Mod. 92
with copper-mantled bullet

Calibre	mm	Description	In boxes of	Lead bullet		Mantled bullet
				Black Powd.	Smokeless	
.297/230	5.6	Morris short	100	Black Powd.	Smokeless	—
.297/230	5.6	Morris long	100	Black Powd.	Smokeless	—
300	5.75	Velodog	25	—	—	Smokeless
	7.5	Rook Rifle long	50	Black Powd.	Smokeless	—
	7.5	Nagant Swedish	25	Black Powd.	—	—
	7.62	Nagant Russian	25	—	—	Smokeless
	7.7	Ordinance Swiss service	20	—	—	Smokeless
	8	Lebel Mod. 92	25	—	—	Smokeless
	10	×20 Dutch	50	Black Powd.	—	—
10	×20 Dutch shot	50	Black Powd.	—	—	
10	×20 Dutch blank	50	Black Powd.	—	—	
11.3	Montenegrin light construction	25	Black Powd.	—	—	



Cartridges for Revolvers, Carbines and Rifles

For Winchester Repeating Rifles Model 1873 and other weapons, Revolvers S. & W., Colt, and other systems.



.22 C. F. (5.6×35 R) with lead bullet



.32 C. F. (32—20) lead bullet



.38 C. F. lead bullet



.44 C. F. lead bullet



.44 C. F. mantled bullet

Calibre	mm	Description	In boxes of	Lead bullet		Mantled Bullet
				Black Powd.	Smokeless	
.22	5.6	C. F. 5.6×35 R	20	Black Powd.	Smokeless	Smokeless
*.32	8	C. F. Model 1873	50	Black Powd.	Smokeless	Smokeless
.38	10.1	C. F. Model 1873	50	Black Powd.	—	—
*.44	10.75	C. F. Model 1873	50	Black Powd.	Smokeless	Smokeless
*.32	8	C. F. Model 1873 light construction	50	Black Powd.	Smokeless	Smokeless

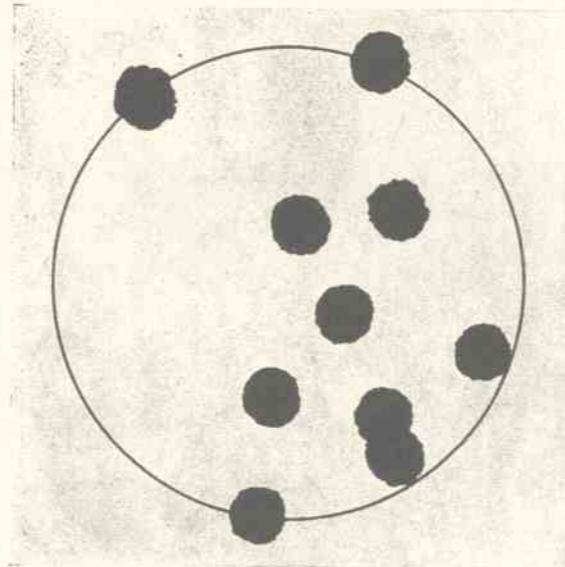
* These cartridges can be supplied with copper-mantled bullets, either solid or soft flat-nosed.



Revolver Cartridges S & W

System Smith & Wesson

Unexcelled patterns



Natural size

Natural size

10 Shots at 50 metres according to the international regulations, obtained by using S & W .38 Special with flat nosed lead bullet; a special cartridge for target shooting



S & W Revolver Cartridges of smokeless construction can be recognized by their nickelled caps and a groove round the case.

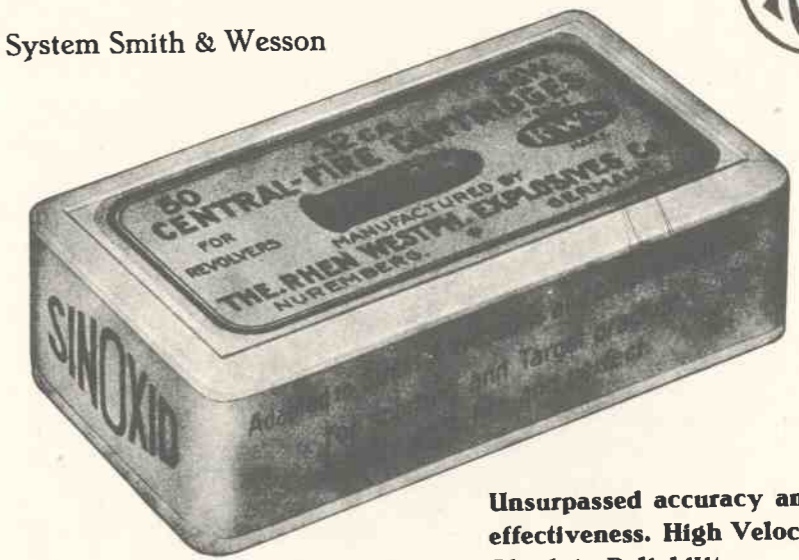
Calibre	Description	In boxes of		Lead Bullet		*
				Black Powder	Smokeless	
.32	short	50	Blank	Black Powder	Smokeless	Smokeless
.32	long	50	—	Black Powder	Smokeless	Smokeless
.38	short	50	Blank	Black Powder	Smokeless	Smokeless
.38	special	50	—	Black Powder	Smokeless	Smokeless
.44	American	50	—	Black Powder	Smokeless	Smokeless
.44	Russian	50	—	—	Smokeless	Smokeless
.44	special	50	—	Black Powder	Smokeless	Smokeless

Special Cartridge for Target Shooting .38 Special with flat-nosed lead bullet Smokeless

* Cartridges with copper-pointed or solid mantled lead bullets.

Revolver Cartridges S & W

System Smith & Wesson



Unsurpassed accuracy and effectiveness. High Velocity. Absolute Reliability.

Smokeless

SINOXID



S & W .32 short with lead bullet



S & W .32 long with lead bullet



S & W .38 short with lead bullet



S & W .38 Special with solid mantled bullet



S & W .44 American type with lead bullet



S & W .38 Special with lead bullet



S & W .44 Special with lead bullet



S & W .44 Russian type with lead bullet

Special Cartridge for Target-Shooting



S & W .38 Special with flat-nosed lead bullet



Percussion Caps for Muzzle Loading Guns and Pistols

(a) Unlined Caps



in cartons of 250 or 500

Smooth, Calibres 39—42 Nos. 2½—5

Ribbed, Calibres 39—42 Nos. 2½—5

(b) Foil-lined Caps



Ribbed, Calibres 40—43 Nos. 3—6

Ribbed, Calibres 52—56 (English light pattern)

Ribbed and split, with milled rim,

English heavy pattern (as Eley's E. B. 9)

English extra heavy pattern (as Eley's E. B. 9)

If required, tins will be used for packing in place of cartons, without extra charge, otherwise cartons.

Top Hat Caps with flanged end



With 4 slits, in cartons of 250

Foil-lined or lacquered

Foil-lined and lacquered

Top Hat Caps not flanged



for Recording Device in Shooting

Galleries, Dynamometers etc.,

in cartons of 250

Percussion Caps

SINOXID



For Brass Cases and Metallic Rifle Cartridges

Top View
natural size:



Cut section
twice natural size:



mm:

5.5

5.5

6.45

6.45

Form of base:

flat

round

flat

flat

SINOXID

SINOXID

SINOXID

SINOXID

Diameter in mm	Form of base	Material	Priming-Composition	Powder to be used	Remarks	In boxes of
5.05	round	Brass	SINOXID	Smokel. P.		500/250/100
5.5	flat	Brass	SINOXID	Smokel. P.		250
5.5	round	Copper	SINOXID	Smokel. P.	f. Cartridges with rim	250
5.5	flat	Brass	SINOXID	Smokel. P.	strength of base 0.80 mm	500/250/100
6.45	flat	Brass		Black P.	plain or copper-plated	500/250/100
6.45	flat	Brass	extra strong	Smokel. P.	with letter "N" on base	500/250/100
6.45	flat	Brass	SINOXID	Smokel. P.	copper-plated	500/250/100
6.45	flat	Brass	SINOXID extra strong	Smokel. P.	with letter "N" on base, copper plated	500/250/100

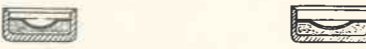
Besides the above mentioned most current types of caps a number of various other types can also be supplied.

For Revolver and Pistol Cartridges

Top View
natural size:



Cut section
twice natural size:



mm:

4.5

5

Form of base:

flat

flat

Diameter in mm	Form of base	Material	Priming Composition	Powder to be used	Remarks	In boxes of
4.50	flat	Brass		Black P.	plain or coppered	500
4.50	flat	Brass	SINOXID	Smokel. P.	coppered	500
5.00	flat	Brass		Black P.	plain or coppered	500
5.00	flat	Brass	SINOXID	Smokel. P.	coppered	500
4.45	with Anvil			Black or Smokel. P.	strength of base less than 0.45 mm	250

For Shotgun Cartridges

Top View
natural size:



Lateral View
natural size

Cut section
twice natural size:



mm:

6.45

6.45

Form of base:

round

flat
long pattern

Medium with
loose anvil

5.00	flat	Copper		Black P.		500
6.45	round	Brass		Black P.	plain or coppered	500/250/100
6.45	flat	Brass		Black P.	long pattern	500/250/100
6.45	flat	Brass	extra-strong	Smokel. P.	long pattern	500/250/100
6.45	flat	Brass	SINOXID	Smokel. P.	long pattern copper-plated	500/250/100
Medium		Copper	SINOXID	Smokel. P.	{ for use with loose anvil	250/100
Percussion Caps for Pin Fire Paper Cartridge Cases						250
Percussion Caps for Pin Fire Brass Cartridge Cases						500



Primer VI

cut section



Primer X

twice natural size



Primer I



Primer No. 4



6.45 mm



5.33 mm

Anvil-Caps

Type	Description	In boxes of
Primer VI	SINOXID covered type	100
Primer I	with 6.45 mm cap for Black Powder	100
Primer I	with 6.45 mm cap for Smokeless Powder SINOXID	100
Primer No. 4	American pattern SINOXID	100
Primer X	Medium with fixed anvil SINOXID	100
Anvil-Caps	6.45 mm SINOXID No. 1975	250
	5.33 mm with 0.45 mm base	100
	5.33 mm with 0.70 mm base SINOXID	100

Any other caps not contained in this catalogue can nevertheless be supplied on application.

Solid Brass Cases for Sporting and Target Rifles

M 11.15 x 60
(M. 71)



11.15 x 52
Express LK



LK 11.15 x 52
LK 11.15 x 65



5.6 x 35 R (Vierling)
8 x 33 (Cal. 32 C. F. Mod. 1873)



G 9.1 x 40

Express
9.3 x 72 R
Standard



D 8.15 x 58



Beaumont
11.5 x 51.5



Scandinavian Patterns with inserted primers

LA Nr. 4
10.15 x 60.5



H 12.7 x 44



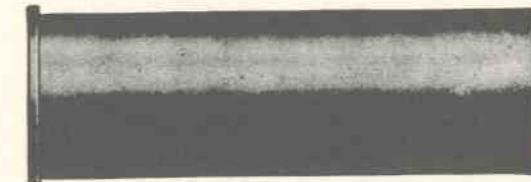
All cases are packed in boxes of 50.

In case it is not possible to specify exactly the calibre of the gun, it is requested that a sample cartridge or a cast of the cartridge chamber be sent with the order.

Solid Drawn Brass Cases for Shotguns

of sufficient strength to be reloaded several times.
Without percussion caps.

Gauge 12



2 1/2" (65 mm) long

Gauge	Length mm	Gauge	Length mm
4	100 or 85	20-28	63
4	82.5 or 80	32	63
8	100	36	50
8	82	10-32	40
10	63	10-32	70
12-14	63	10-32	75
16	63		

"Thin Brass"

Same as "Solid Brass" but of thinner construction

12 gauge/63 mm with inserted primers

16 gauge/63 mm with inserted primers

Various Types of Rifle Cartridges with Lead Bullets

**9.3 x 72 R
Standard**



Type	Cal. mm	Length mm	Description	In boxes of		
5.6 x 35 R	5.6	35	Vierling	20	Black Powder	Smokeless
D	8.15	58	. . . . .	10	Black Powder	—
G	9.1	40	Bullet or Shot	20	Black Powder	Smokeless
9.3 x 72 R	9.3	72	Standard	10	Black Powder	Smokeless
360	9.3	82	Nimrod	10	Black Powder	Smokeless

**M 11.15 x 60
Model 71**



**Beaumont
11.5 x 51.5**



H 12.7 x 44



Type	Cal. mm	Length mm	Description	In boxes of		
LA	10.15	60.5	No. 4	20	Black Powder	
LK	11.15	52	. . . . .	10	Black Powder	
LK	11.15	65	. . . . .	10	Black Powder	
M	11.15	60	Blank Cartridge with wooden bullet	10	Black Powder	
M	11.15	60	Lead bullet	10	Black Powder	
M	11.15	60	Lead bullet with paper guide	10	Black Powder	
	11.5	51.5	Beaumont	20	Black Powder	
H	12.7	44	. . . . .	20	Black Powder	

BIG GAME HUNTERS KNOW

THEIR LIVES DEPEND UPON THEIR AMMUNITION AND THEREFORE THEY USE RWS SINOXID CARTRIDGES

RWS
SINOXID

Central Fire Metal Sporting Cartridges
smokeless, with metal-coated bullets



Why should factory-loaded cartridges only be used?

Because many accidents are due to the use of cartridges loaded by in-experts. Therefore, it is in the interest of every shooter to accept only factory-loaded cartridges in the original packing. RWS Rifle Cartridges are only supplied in cartons of 10, bearing the trade-marks RWS and SINOXID

In all rifle cartridges the hairfine interstice between cap and cap chamber is closed up by a special lacquer.

Cartridges with extra loads, either reduced or increased, are not supplied by us, but only with normal loads approved of by long years experience.

H
-MANTLE
Patented at home and abroad

The universal Bullet for Rifles.

The H-mantled bullet represents a combination of the most efficient explosive effect and of a so far unequalled penetrating power. Cartridges generally used for red deer may safely be used for smaller animals as well, which according to many unsolicited reports has been proved by experience. They have stood the test, both in Europe, abroad, and in the tropics.

The following three types of H-mantled bullets are available which will allow the shooter to choose for the most current types, cal. 7 and 8 mm, that point of bullet which will suit his purpose:

- The approved H-mantled bullet with lead point,**
- The improved H-mantled bullet with hollow copper point,**
- The new H-mantled bullet with open hollow point,**
- all of them with shoulder.**

Cartridges in cal. 6.5 mm, 8x56 M.-Sch., 9x56 M.-Sch., 9x57, and 9x57 R are only supplied with H-mantled bullets with open hollow point, well-ried bullet-construction for these cartridges. Cartridges cal. 9.3x62 and 9.3x74 R can at present only be supplied with the lead point and hollow copper point construction.

The advantages of H-mantled bullets:

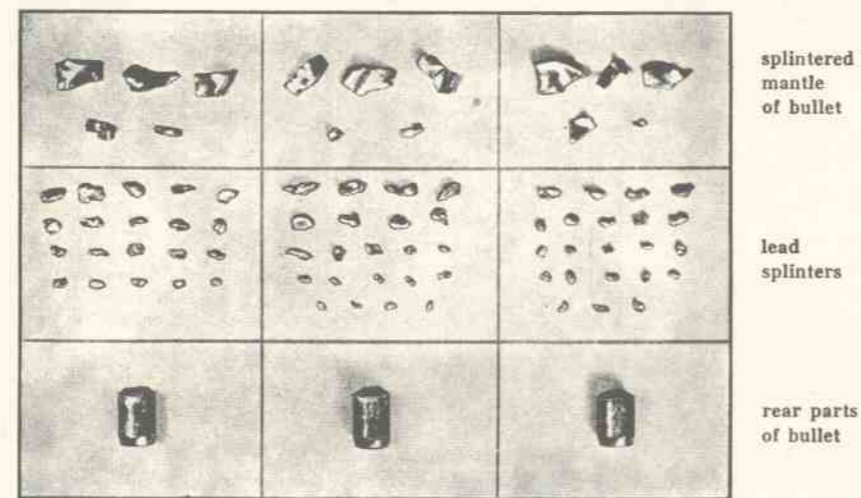
(1) Best Precision and flattest possible trajectory:

Most suitable form of bullet in regard to ballistics, owing to its thin point and conical rear part. Little loss of velocity and hitting power over usual shooting distances. Flat trajectory, therefore no change of sighting, or aiming point needed within the distances according to general shooting rules. Remarkable precision, testified innumerable times by experts in arms and ammunition and by hunters who are using them.

(2) Unfailing effect:

The construction of H-mantled-bullets is such that on impact upon the body of an animal the front part of the bullet will break up in any case, and cause such a stopping effect as hardly ever before achieved by any of the usual soft nosed bullets.

H-mantled bullet with open hollow point
Disintegration in body of smaller game.



(3) The exit point:

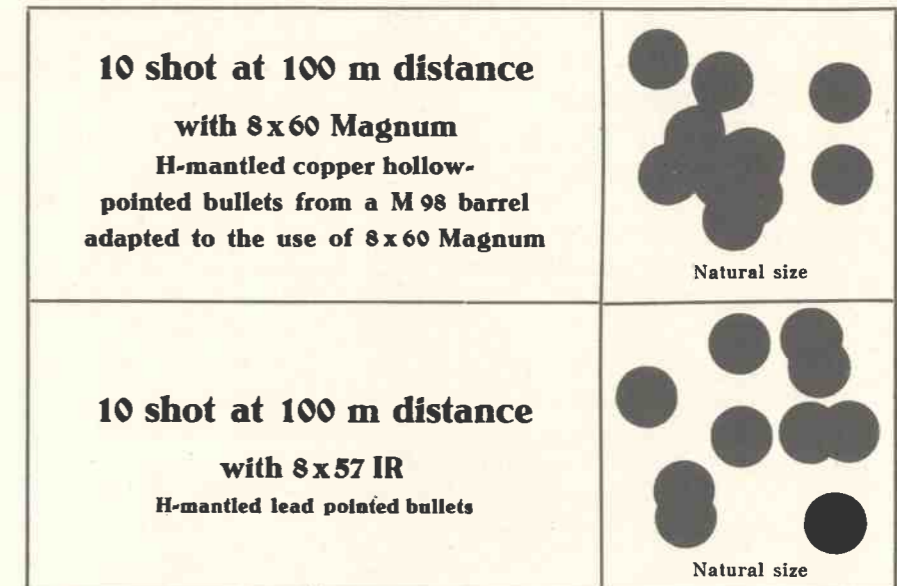
The solid rear part of the bullet will hereby serve as an anvil, upon which the mantle of the bullet and the lead filling of the front part will break to pieces as soon as there is any frontal resistance. Owing to the rotation of the bullet and the development of centrifugal power, the massive rear part of the bullet will scatter the fragments and penetrate them. By this means an extraordinarily deep penetration is achieved even if the bullet is met by the resistance of heavy bones. The exit point is larger than the size of the bullet, consequently there is ample bleeding, but without any undue destruction of the game.

The shoulder of the bullet serves to make the entering point larger and as clean as if it were punched.

(4) No undue destruction of the game:

When shooting smaller game, according to the principle of H-mantled bullets the energy of the bullet is only partially transformed into explosive effect, whereas, when used on heavy game, the total energy is developed. Therefore, the destruction on small game is less heavy than with ordinary mantled bullets of the same weight, combined with high terminal velocity.

Diagram of H-mantled bullets at 100 m distance:



Which weapons

are suited for the use of H-mantled bullets?

H-mantled bullets do not require any special weapons. They can be shot from all older weapons when barrel and bullet lead conform to the standard measurements. The barrel should have been subjected to test in a proofhouse for Nitro-Powder for the use of the normal kind of mantled bullets. The pressure of the H-mantled cartridge should not, or only slightly, be higher than the pressure marking on the barrel. When using older constructions of weapons care should be taken that the size of the barrels for which H-mantled bullets are to be arranged is not less than the following figures:

6.5 mm calibre	diameter of lands = 6.45 mm
	diameter of grooves = 6.70 mm
7 mm calibre	diameter of lands = 6.98 mm
	diameter of grooves = 7.24 mm
8 mm calibre standard	diameter of lands = 7.80 mm
	diameter of grooves = 8.07 mm
8 mm calibre S Magnum	diameter of lands = 7.89 mm
	diameter of grooves = 8.20 mm
9 mm calibre	diameter of lands = 8.78 mm
	diameter of grooves = 9.06 mm
9.3 mm calibre	diameter of lands = 9.00 mm
	diameter of grooves = 9.28 mm

For Mannlicher-Schoenauer 6.5 mm, 8 mm and 9 mm the sizes of the bullets are adapted to the measurements of the Original-Steyr-Weapons.

H-mantled bullets, both with copper-hollow-point or lead point, are longer and more slender in shape than the normal types of mantled bullets with their blunt and clumsy form. Likewise the fixing of the bullets has a deeper setting. This causes a certain free travel of the bullet which, however, owing to its favourable guidance, is of advantage to the accuracy and pressure. Barrels with uncommonly short bullet leads, for the exclusive use of light and short bullets, cannot be used for H-mantled bullets, unless the lead is altered to the normal measurements necessary for the use of long bullets and the barrel is again subjected to test in a proof house.







In making new rifles for the use of H-mantled bullets the manufacturers should adhere to the Standard measurements of the bullet lead adapted to the use of the old-type long-shape bullets.

Change of point of impact when changing over to the use of H-mantled bullets.

Weapons which up to the present have been used in connection with 8×60 Magnum, 9.3×62 Magnum, or 7 mm Cartridges with similar loads and bullets of the same weight as H-mantled bullets can be used with the H-mantled bullets, without having to alter the sighting, as up to 150 metres distance there will hardly be any difference in the striking point. A special targeting of the weapon in this case will usually not be necessary, but a few shots on the target are always recommended, because some weapons are very sensitive even to the slightest change of load. Anybody, however, having used before a lower charge with a different bullet will have to put up with a change of the rear sight. Yet the advantages of the H-mantled bullets will offer ample compensation for the little trouble and the small expense for altering the rear sight. In all cases, where it is necessary to undertake such changes the manufacturer of the respective weapon or a gunsmith should be consulted. There is very little difference of striking point when changing from H-mantled copper-hollow-pointed bullet to H-mantled lead pointed bullet as well as H-mantled open hollow pointed bullet and a few shots will be sufficient to show how it can be corrected.





H-mantled bullets are only supplied in connection with ready loaded cartridges but not the bullets by themselves.

Rifle Cartridges with H-mantled Bullets **SINOXID**

Description	H-mantled Bullet	Length of bullet mm	Weight of bullet g	Powder g	
					
6.5×54 M.-Sch. rimless	Open hollow-point	34	10.3	2.65	R 2
					
					
6.5×57 rimless	Open hollow-point	33	10	2.5	T 39
6.5×57 R with rim	Open hollow-point	33	10	2.45	T 39
					
					
					
NEW!					
7×57 rimless	Hollow copper point	38	11.2	3.1	R 2
	Lead point	33.5	11.2	3.1	R 2
	Open hollow-point	32	11.2	3.1	R 2
7×57 R with rim	Hollow copper point	38	11.2	3.0	R 2
	Lead point	33.5	11.2	3.0	R 2
	Open hollow-point	32	11.2	3.0	R 2







All H-mantled bullets, except for Mannlicher-Schoenauer Cartridges, are made with shoulder.

Rifle Cartridges with H-mantled Bullets **SINOXID**

Description	H-mantled Bullet	Length of bullet mm	Weight of bullet g	Powder g	
					
Cases Model Brenneke					
NEW!					
7×64 rimless	Hollow copper point	38	11.2	3.75	R 1
	Lead point	33.5	11.2	3.75	R 1
	Open hollow-point	32	11.2	3.75	R 1
7×65 R with rim	Hollow copper point	38	11.2	3.6	R 1
	Lead point	33.5	11.2	3.6	R 1
	Open hollow-point	32	11.2	3.6	R 1
					
8×56 M.-Sch. rimless	Open hollow-point	27.5	12.1	2.8	T 1910





All H-mantled bullets, except for Mannlicher-Schoenauer Cartridges, are made with shoulder.

Rifle Cartridges with H-mantled Bullets **SINOXID**

Description	H-mantled Bullet	Length of bullet mm	Weight of bullet g	Powder g	
					
					
NEW!					
8×57 I rimless	Hollow copper point	35	12.7	2.9	R 5
	Lead point	30	12.7	2.9	R 5
	Open hollow-point	29	12.7	2.9	R 5
8×57 IR with rim	Hollow copper point	35	12.7	2.85	R 5
	Lead point	30	12.7	2.85	R 5
	Open hollow-point	29	12.7	2.85	R 5
					
					
NEW!					
8×60 rimless	Hollow copper point	35	12.7	3.0	R 5
	Lead point	30	12.7	3.0	R 5
	Open hollow-point	29	12.7	3.0	R 5
8×60 R with rim	Hollow copper point	35	12.7	2.9	R 5
	Lead point	30	12.7	2.9	R 5
	Open hollow-point	29	12.7	2.9	R 5






All H-mantled bullets, except for Mannlicher-Schoenauer Cartridges, are made with shoulder.

Rifle Cartridges with H-mantled Bullets **SINOXID**

Description	H-mantled Bullet	Length of bullet mm	Weight of bullet g	Powder g	
					
					
NEW!					
*8×60 Magnum rimless	Hollow copper point	33.5	12.1	3.7	Sp.P.
	Lead point	29	12.1	3.7	Sp.P.
	Open hollow-point	27.5	12.1	3.7	Sp.P.
*8×60 R Magnum with rim	Hollow copper point	33.5	12.1	3.7	Sp.P.
	Lead point	29	12.1	3.7	Sp.P.
	Open hollow-point	27.5	12.1	3.7	Sp.P.
NEW!					
*8×75RS with rim	Hollow copper point	33.5	12.1	4.3	R 2
	Lead point	29	12.1	4.3	R 2
	Open hollow-point	27.5	12.1	4.3	R 2
* For barrels with S or Magnum bore only.					

All H-mantled bullets, except for Mannlicher-Schoenauer Cartridges, are made with shoulder.

Rifle Cartridges with H-mantled Bullets **SINOXID**

Description	H-mantled Bullet	Length of bullet mm	Weight of bullet g	Powder g	
					
9×56 M.-Sch. rimless	Open hollow-point	28.5	15	3.15	R 5
					
					
9×57 rimless	Open hollow-point	28.5	15	3.2	R 5
9×57 R with rim	Open hollow-point	28.5	15	3.1	R 5
					
9.3×62 rimless	Hollow copper point	35	16.7	3.85	Sp.P.
	Lead point	29.5	16.7	3.85	Sp.P.
					
9.3×74 R with rim	Hollow copper point	35	16.7	4.0	Sp.P.
	Lead point	29.5	16.7	4.0	Sp.P.

All H-mantled bullets, except for Mannlicher-Schoenauer Cartridges, are made with shoulder.

D MANTLE

Metal Sporting Cartridges with D-mantled Bullets.

The letter "D" which gives this special bullet its name is the abbreviation of the word "DOUBLE".

The outstanding feature of this new cartridge is that the copper-coated bullet, to have the best guide possible, is enclosed in a further coating of ingot-steel.

By this combination the following advantages are ensured:

- (1) High velocity coupled with highest precision and, at the same time, with the assurance that no dangerous deposits will be left in the barrel.
- (2) Owing to a thin copper-coating in connection with the open hollow point, the breaking-up of the bullet will begin at once when meeting the slightest resistance in the body of the game.
- (3) Complete use of the high hitting power of the bullet is immediately made in the body of the game, by developing 100 percent of its effective portion and not a certain percentage of it only.
- (4) Further, the bullet will not disintegrate before penetrating an effective depth, even when hitting such parts of the body as will offer resistance.

All further particulars and an exact table of ballistics are put down in a special leaflet which will be supplied on demand free of charge.

6.5 x 57
rimless



6.5 x 57 R
with rim



6.5 x 58 R
with rim



Description	Length of bullet mm	Weight of bullet g	Charge g type	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
6.5x57 D-mantled rimless	21.5	6.2	2.9 T39	960	291	3100	60
6.5x57 R D-mantled with rim	21.5	6.2	2.8 T39	960	291	2850	66
6.5x58 R D-mantled with rim	21.5	6.2	2.05 R5	755	180	2300	58

D-mantled bullets will be supplied only in connection with fully loaded cartridges and not the bullets alone.









Rifle Cartridges with Metal-Coated Bullets



Smokeless


SINOXID


Smokeless


Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
5.6x35 R with rim (Vierling) 							
Considerable increase of efficiency with the load of 0.6 g RVP (not to be used for weapons with weak breech mechanism).							
Copper-coated bullets:							
Solid round head	12	2.55	0.43 RVP	520	35	1450	60
Hollow-point			0.6 RVP	695	63	2400	60
Soft flat-nosed							
6.5x27 R with rim 							
Solid round head	18	5.3	0.5 T1912	450	55	2200	65
Hollow-point							
Soft flat-nosed							
6.5x52 R with rim 							
Copper-coated bullets:							
Solid flat head			1.4 R5	585	133	1700	65.5
Soft flat-nosed	25	7.6	1.6 T39	650	164	2100	65.5
Flat hollow-point							


Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm	
6.5×54 rimless 								
Solid round head	26	8.2	2.2	T 39	685	196	2500	60
Hollow-point								
Soft flat-nosed								
Soft round-nosed								
6.5×54 M.-Sch. rimless  Mannlicher-Schoenauer								
H-mantled bullets:								
Open hollow-point . . .	34	10.3	2.65	R 2	690	250	3200	45
Solid round head	30	10.3	2.9	R 1	685	246	3100	45
Hollow-point								
Soft flat-nosed								
Soft round-nosed								
Soft-nosed pointed S-bullet	28	8.0	2.9	R 1	750	229	2400	45
6.5×57 rimless 								
H-mantled bullets:								
Open hollow-point . . .	33	10	2.5	T 39	720	264	3050	60
D-mantled bullets	21.5	6.2	2.9	T 39	960	291	3100	60
Solid round head	30	10	2.3	T 39	660	222	2900	60
Hollow-point								
Soft flat-nosed								
Soft round-nosed								
Solid pointed S-bullet . . .	22	6	2.9	T 39	975	291	3100	60
Soft-nosed pointed S-bullet								




Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm	
6.5×57 R with rim 								
H-mantled bullets:								
Open hollow-point . . .	33	10	2.45	T 39	720	264	2900	66
D-mantled bullets	21.5	6.2	2.8	T 39	960	291	2850	66
Solid round head	30	10	2.3	T 39	660	222	2900	60
Hollow-point								
Soft flat-nosed								
Soft round-nosed								
Solid pointed S-bullet . . .	22	6	2.8	T 39	975	282	2900	66
Soft-nosed pointed S-bullet								
6.5×58 R with rim 								
D-mantled bullets	21.5	6.2	2.05	R 5	755	180	2300	58
Solid round head	26	8.2	1.7	T 39	590	146	2000	58
Hollow-point								
Soft flat-nosed								
Soft round-nosed								
Copper-coated bullets:								
Solid	23	7.4						
Type B	23	7.65	1.85	T 39	675	179	2500	58
Type C	23	7.8						


Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
7×57 rimless							
H-mantled bullets:							
Hollow copper point	38						
Lead point	33.5	11.2	3.1	R2	755	326	3050 60
Open hollow-point	32						
Solid pointed S-bullet, torpedo-style	35	11.2	3.0	R2	755	326	3050 60
Solid round head							
Hollow-point							
Soft flat-nosed	30	11.2	2.95	R2	705	284	3000 65
Soft round-nosed			2.4	R5	685	268	2800 65
Soft round-nosed with small lead point							
Solid round head							
Hollow pointed S-bullet	26	9.0	3.0	R2	750	258	2200 65
Soft flat-nosed			3.2	R2	810	301	2850 65
Soft round-nosed							
Solid pointed S-bullet	31	10.0	3.2	R2	785	314	3450 65
Soft-nosed pointed S-bullet	30						
Hollow pointed torpedo-style	33	11.2	3.0	R2	740	313	3300 65


Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
7×57 R with rim							
H-mantled bullets:							
Hollow copper point	38						
Lead point	33.5	11.2	3.0	R2	755	326	2900 68
Open hollow-point	32						
Solid pointed S-bullet, torpedo-style	35	11.2	2.9	R2	755	326	2900 68
Solid round head							
Hollow-point							
Soft flat-nosed	30	11.2	2.95	R2	705	284	3000 65
Soft round-nosed			2.4	R5	685	268	2800 65
Soft round-nosed with small lead point							
Solid round head							
Hollow pointed S-bullet	26	9.0	3.0	R2	750	258	2200 65
Soft flat-nosed			3.2	R2	810	301	2850 65
Soft round-nosed							
Solid pointed S-bullet	31	10.0	3.2	R2	785	314	3450 65
Soft-nosed pointed S-bullet	30						
Hollow pointed torpedo-style	33	11.2	3.0	R2	740	313	3300 65



Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
<p>7×64 rimless</p>  <p style="text-align: center;">Brenneke shell</p>							
H-mantled bullets:							
Hollow copper-point	38						
Lead point	33.5	11.2	3.75	R 1	830	393	3600 60
Open hollow-point	32						
Solid pointed S-bullet, torpedo-style	35	11.2	3.6	R 1	830	393	3600 60
Solid round head							
Hollow-point							
Soft flat-nosed	30	11.2	3.3	R 2	770	338	3000 68
Soft round-nosed							
Soft round-nosed with small lead point							
Solid round head							
Hollow-pointed S-bullet	26	9.0	3.5	R 2	850	331	2850 68
Soft flat-nosed							
Soft round-nosed							
Hollow pointed torpedo-style	33	11.2	3.3	R 2	800	365	3100 68


Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
<p>7×65 R with rim</p>  <p style="text-align: center;">Brenneke shell</p>							
H-mantled bullets:							
Hollow copper-point	38						
Lead point	33.5	11.2	3.6	R 1	830	393	3300 68
Open hollow-point	32						
Solid pointed S-bullet, torpedo-style	35	11.2	3.5	R 1	830	393	3300 68
Solid round head							
Hollow-point							
Soft flat-nosed	30	11.2	3.3	R 2	770	338	3000 68
Soft round-nosed							
Soft round-nosed with small lead point							
Solid round head							
Hollow pointed S-bullet	26	9.0	3.5	R 2	850	331	2850 68
Soft flat-nosed							
Soft round-nosed							
Hollow pointed torpedo-style	33	11.2	3.3	R 2	800	365	3100 68



Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
7×72 R with rim							
Solid round head	26	9.0	2.85 R2	715	234	2400	60
Hollow pointed S-bullet							
Soft flat-nosed							
Soft round-nosed							
Copper-coated bullets:	26	10.0	2.65 R2	695	246	2600	66
Type C							
8×56 M.-Sch. rimless	 Mannlicher-Schoenauer						
H-mantled bullets:	27.5	12.1	2.8 T1910	710	311	2800	50
Open hollow-point							
Solid round head	26	13.1	2.65 T1910	635	269	2500	50
Hollow-point							
Soft flat-nosed							
Soft round-nosed							
8×57 I rimless	 Practice cartridge						
Without clips	—	—	—	—	—	—	—
On clips	—	—	—	—	—	—	—




Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
8×57 I rimless							
H-mantled bullets:	35	12.7	2.9 R5	740	355	2850	60
Hollow copper-point							
Lead point							
Open hollow-point	29						
Solid pointed S-bullet, torpedo-style	35	12.7	2.9 R5	740	355	2850	60
Hollow-point	30	14.7	2.45 T1910 R5	625	293	2600	68
Soft flat-nosed							
Soft round-nosed							
Soft round-nosed with small lead point							
Soft round-nosed with small lead point			3.25 Sp.P.	680	346	2800	68
Solid round head	26	12.7	2.6 T1910 R5	685	304	2550	68
Hollow-point							
Soft flat-nosed							
Soft round-nosed							
Soft round-nosed with small lead point			3.5 Sp.P.	750	364	2800	68
Solid round head	21	10.2	3.0 R5	800	333	2600	68
Hollow-point							
Soft flat-nosed							
Soft round-nosed							
Soft round-nosed with small lead point							
* Soft-nosed pointed S-bullet	28	10.0	3.1 R5	835	355	3500	68
Blank cartridges:							
With special wooden bullets	—	—	—	—	—	—	—
Practice cartridges:							
Without clips	—	—	—	—	—	—	—
On clips	—	—	—	—	—	—	—
* For barrels with S-bore (Magnum) only.							

Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
8×57 IR with rim 							
H-mantled bullets:							
Hollow copper point	35						
Lead point	30	12.7	2.85 R5	740	355	2650	68
Open hollow-point	29						
Solid pointed S-bullet, torpedo-style	35	12.7	2.85 R5	740	355	2650	68
Solid round head							
Hollow-point			2.3 T1910	580	252	2200	68
Soft flat-nosed	30	14.7	2.45 T1910	625	293	2600	68
Soft round-nosed			2.5 R5	625	293	2600	68
Soft round-nosed with small lead point			3.25 Sp.P.	680	346	2800	68
Solid round head							
Hollow-point			2.6 T1910	685	304	2550	68
Soft flat-nosed	26	12.7	2.75 R5	685	304	2550	68
Soft round nosed			3.5 Sp.P.	750	364	2800	68
Soft round-nosed with small lead point							
Solid round head							
Hollow-point							
Soft flat-nosed	21	10.2	3.0 R5	800	333	2600	68
Soft round-nosed							
Soft round-nosed with small lead point							
* Soft-nosed pointed S-bullet	28	10.0	3.1 R5	835	355	3500	68
* For barrels with S-bore (Magnum) only.							




Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
8×57 R 360 with rim 							
Solid round head							
Hollow-point							
Soft flat-nosed	26	12.7	1.8 T 1910	515	172	1850	65
Soft round-nosed			2.0 T 1910	560	203	2000	65
Soft round-nosed with small lead point							
Solid round head							
Hollow-point							
Soft flat-nosed	21	10.2	2.4 R 5	670	233	2000	65
Soft round-nosed							
Soft round-nosed with small lead point							
8×58 R with rim 							
Solid round head							
Hollow-point							
Soft flat-nosed	26	12.7	1.8 T 1910	515	172	1850	65
Soft round-nosed							
Soft round-nosed with small lead point							
Solid round head							
Hollow-point							
Soft flat-nosed	26	12.7	2.0 T 1910	560	203	2000	65
Soft round-nosed							
Soft round-nosed with small lead point							



Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
8×60 rimless							
H-mantled bullets:							
Hollow copper point	35						
Lead point	30	12.7	3.0	R 5	770	384	2850
Open hollow-point	29						
Solid pointed S-bullet, torpedo-style	35	12.7	3.0	R 5	770	384	2850
Solid round head							
Hollow-point							
Soft flat-nosed	26	12.7	3.0	R 5	750	364	2900
Soft round-nosed			3.2	R 5	780	394	3400
Soft round-nosed with small lead point							
Solid round head							
Hollow-point							
Soft flat-nosed	30	14.7	3.1	T 39	705	373	2900
Soft round-nosed							
Soft round-nosed with small lead point							
*Soft-nosed pointed S-bullet	28	10.0	3.4	R 4	905	418	3500
* For barrels with S-bore (Magnum) only.							



Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
8×60 R with rim							
H-mantled bullets:							
Hollow copper-point	35						
Lead point	30	12.7	2.9	R 5	770	384	2600
Open hollow-point	29						68
Solid pointed S-bullet, torpedo-style	35	12.7	2.9	R 5	770	384	2600
Solid round head							
Hollow-point							
Soft flat-nosed	26	12.7	3.0	R 5	750	364	2900
Soft round-nosed							68
Soft round-nosed with small lead point							
Solid round head							
Hollow-point							
Soft flat-nosed	30	14.7	3.1	T 39	705	373	2900
Soft round-nosed							68
Soft round-nosed with small lead point							
*8×60 Magnum rimless							
H-mantled bullets:							
Hollow copper-point	33.5						
Lead point	29	12.1	3.7	Sp. P.	835	430	3500
Open hollow-point	27.5						65
Solid pointed S-bullet, torpedo-style	32	12.1	3.7	Sp. P.	835	430	3500
* For barrels with S or Magnum bore only.							



Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
*8×60 R Magnum with rim 							
H-mantled bullets:							
Hollow copper point	33.5	12.1	3.7 Sp.P.	835	430	3500	65
Lead point	29						
Open hollow-point	27.5						
Solid pointed S-bullet, torpedo-style	32	12.1	3.7 Sp.P.	835	430	3500	65
8×72 R with rim 							
Solid round head	26	12.7	2.65 R 5	665	286	2600	66
Hollow-point							
Soft flat-nosed							
Soft round-nosed							
Soft round-nosed with small lead point							
Copper-coated bullets:							
Type B	23	11.75	2.75 R 5	695	289	2600	66
Type C							
*8×75 RS with rim 							
H-mantled bullets:							
Hollow copper point	33.5	12.1	4.3 R 2	835	430	3000	65
Lead point	29						
Open hollow-point	27.5						
Solid round head	30	14.7	Shortly to appear				
Hollow-point							
Soft flat-nosed							
Soft round-nosed							
Soft round-nosed with small lead point							




* For barrels with S or Magnum bore only.

Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
8.15×46 R with rim 							
Copper-coated bullets:							
Type B	20	9.8	1.8 R 5	560	157	1450	71
Type C							
9×56 M.-Sch. rimless 							
Mannlicher-Schoenauer							
H-mantled bullets:							
Open hollow-point	28.5	15	3.15 R 5	645	318	2200	50
Solid round head	26	16	2.95 R 5	620	314	2100	50
Hollow-point							
Soft round-nosed							
9×57 rimless 							
H-mantled bullets:							
Open hollow-point	28.5	15	3.2 R 5	660	333	2300	60
Solid round head	30	18.2	2.5 T 1910	565	296	2100	60
Hollow-point							
Soft flat-nosed							
Soft round-nosed							
Solid round head	26	16	3.0 R 5	640	334	2100	60
Hollow-point							
Soft flat-nosed							
Soft round-nosed							
Soft round-nosed with small lead point							

Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
9×57 R with rim							
H-mantled bullets:							
Open hollow-point . . .	28.5	15	3.1 R 5	660	333	2100	65
Solid round head							
Hollow-point	30	18.2	2.5 T 1910	565	296	2100	60
Soft flat-nosed							
Soft round-nosed							
Solid round head							
Hollow-point							
Soft flat-nosed	26	16	3.0 R 5	640	334	2100	60
Soft round-nosed							
Soft round-nosed with small lead point							
9.3×57 rimless							
Solid round head							
Hollow-point							
Soft flat-nosed	30	18.5	3.0 R 5	575	312	2500	60
Soft round-nosed							
Soft round-nosed with small lead point							

Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm
9.3×62 rimless							
H-mantled bullets:							
Hollow copper-point	35						
Lead point	29.5	16.7	3.85 Sp.P.	805	552	3250	68
Solid pointed S-bullet, torpedo-style	34	16.7	3.85 Sp.P.	805	552	3250	68
Solid round head							
Hollow-point							
Soft flat-nosed	30	18.5	3.5 R 5	685	443	2900	68
Soft round-nosed							
Soft round-nosed with small lead point							
Solid round head							
Hollow-point							
Soft flat-nosed	26	16.7	3.85 Sp.P.	770	505	3000	68
Soft round-nosed							
Soft round-nosed with small lead point							
9.3×72 R with rim							
Copper-coated bullets:							
Solid flat head							
Type B	20	12.5	2.6 R 5	575	211	1250	65
Type C							
Dornheim cartridges:							
torpedo-style soft-nosed pointed S-bullets	25	13	2.9 R 5	655	285	1800	65

Description .	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm	
9.3×74 R with rim 								
H-mantled bullets:								
Hollow copper point	35	16.7	4.0	Sp.P.	780	518	2900	65
Lead point	29.5							
Solid pointed S-bullet, torpedo-style	34	16.7	4.0	Sp.P.	780	518	2900	65
Solid round head	30	18.5	3.5	R 5	675	430	2850	65
Hollow-point								
Soft flat-nosed								
Soft round-nosed								
Soft round-nosed with small lead point								
9.3×82 R 360 Nimrod with rim 								
Copper-coated bullets:								
Solid flat head	20	12.5	1.8	P.	500	159	2100	58
Type B								
Type C								

Description	Length of bullet mm	Weight of bullet g	Powder g	V 25 m/s	E 25 mkg	Pressure at	Length of barrel cm	
9.5×57 M.-Sch. rimless  Mannlicher-Schoenauer								
Solid round head	26	17.6	3.25	R 5	625	350	2700	50
Hollow-point								
Soft round-nosed								
10.75×68 rimless 								
Solid round head	26	22.5	4.2	R 5	655	492	2900	70
Hollow-point								
Soft flat-nosed								
Soft round-nosed								
11.2×72 Schüler rimless 								
Solid round head	30	26	5.25	R 5	720	687	3200	65
Hollow-point								
Soft round-nosed								
Clips. All rimless cartridges can be supplied on clips against an extra charge.								



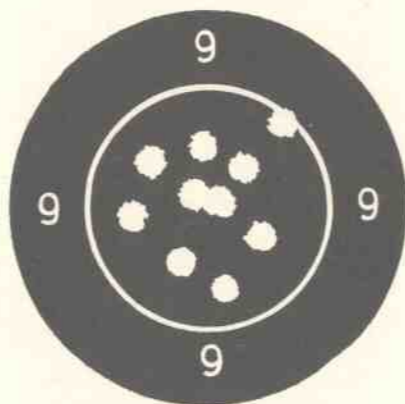
Practice Ammunition M. 20

Weak Report / For indoor and outdoor use

Non-corrosive



Non-corrosive



Natural size
Cut from original target

Record attained by Champion Monsieur Arsène Laitem, Bruxelles,
at a competition over 12 metres distance, on 10 th September 1934

100 out of 100 possibles (Diameter of cone of dispersion 23 mm)

Shot from our Insertion Barrel



(German Patents D. R. P. 365264 / D. R. G. M. 778716)

To be supplied for all popular types of pistols 7.63 mm, 7.65 mm and 9 mm

Central Fire Practice Ammunition M. 20

Calibre 4 mm, in boxes of 100.

C. F. Cartridges for Adaptors

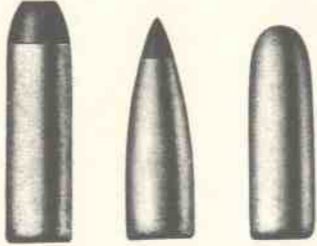


.22 Smokeless, rustless, "N" brand.

Metal-Coated Bullets (nickelled)




Illustration	Cal. mm	Description	Length mm	Approximate weight g
<p>6.5-30 Round soft-nosed 6.5-26 Flat soft-nosed 6.5-22 Small soft point S</p>	6.5	Solid round-nosed Hollow pointed Flat soft-nosed Round soft-nosed	30	10.0
	6.5	Solid round-nosed Hollow pointed Flat soft-nosed Round soft-nosed	26	8.2
	6.5	S-solid-pointed S-soft-pointed	22 S	6.0
	6.5	Solid round-nosed Hollow pointed Flat soft-nosed	18	5.3
<p>6.5-30 Hollow point M.-Sch. 7-33 Hollow point Torpedo style</p>	6.5	Flat solid-nosed Flat soft-nosed	12	3.35
	6.5 M.-Sch.	Solid round-nosed Hollow pointed Flat soft-nosed Round soft-nosed	30	10.3
<p>7-30 Flat soft-nosed 7-26 Round soft-nosed 7-26 Hollow point S</p>	6.5 M.-Sch.	S-soft-pointed	28 S	8.0
	7	Hollow pointed torpedo style	33	11.2
	7	Solid round-nosed Hollow pointed Flat soft-nosed Round soft-nosed* Small lead point	30	11.2
	7	S-solid-pointed	31 S	10.0
	7	S-soft-pointed	30 S	10.0
	7	Solid round-nosed Solid flat-nosed S-hollow pointed Flat soft-nosed Round soft-nosed	26	9.0
	7	Solid flat-nosed Soft flat-nosed	14	5.0

* with shoulder


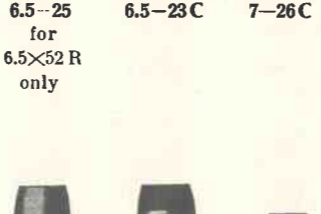
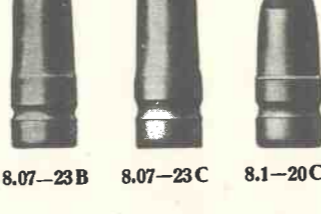




Metal-Coated Bullets (nickelled)

Illustration	Cal. mm	Description	Length mm	Approximate Weight g
 <p>8-30 Flat soft-nosed 8-28 S soft-pointed 8-26 Solid</p>	8	Solid round-nosed . . . Hollow Point Flat soft-nosed Round soft-nosed* Small lead point	30	14.7
	**8	Pointed soft nose S . . .	28 S	10.0
	8	Solid round-nosed . . . Hollow Point Flat soft-nosed Round soft-nosed* Small lead point	26	12.7
	8	Solid round-nosed . . . Hollow Point Flat soft-nosed Round soft-nosed Small lead point	21	10.2
	8	Solid flat-nosed Soft flat-nosed	12.5	5.45
 <p>8-26 Hollow Point 8-26 Flat soft-nosed 8-26 Round soft-nosed</p>	8 M.-Sch.	Solid round-nosed Hollow Point Flat soft-nosed Round soft-nosed*	26	13.1
	9	Solid round-nosed Hollow Point Flat soft-nosed Round soft-nosed*	30	18.2
	9	Solid round-nosed Hollow Point Flat soft-nosed Round soft-nosed Small lead point	26	16
 <p>8-26 Small lead point 8-21 Flat soft-nosed 9-30 Round soft-nosed</p>	9 M.-Sch.	Solid round-nosed Hollow Point Round soft-nosed	26	16
	* With shoulder. ** For barrels with S-bore only.			

Metal-coated Bullets (nickelled)

Illustration	Cal. mm	Description	Length mm	Approximate Weight g
 <p>9-26 Flat soft-nosed 9.3-30 Hollow Point</p>	9.3	Solid round-nosed Hollow Point Flat soft-nosed Round soft-nosed* Small lead point	30	18.5
	9.3	Solid round-nosed Hollow point Flat soft-nosed Round soft-nosed Small lead point	26	16.7
 <p>9.3-26 Small lead point 10.75-26 Flat soft-nosed</p>	9.5 M.-Sch.	Solid round-nosed Hollow point Round soft-nosed	26	17.6
	10.75	Solid round-nosed Hollow point Flat soft-nosed Round soft-nosed	26	22.5
 <p>11.2-30 Hollow Point</p>	11.2	Solid Hollow point Round soft-nosed	30	26
* With shoulder				

Copper-Coated Bullets (nickelled except 5.6—12)

Illustration	Cal. mm	Description	Length mm	Weight g
 6.5—25 for 6.5×52 R only	5.6	Solid round-nosed . . .		
		Hollow Point	12	2.55
		Flat soft-nosed		
 6.5—23 C 7—26 C	6.5	Solid flat-nosed	25	7.6
		Flat soft-nosed	25	7.6
		Hollow flat-nosed	25	7.1
 6.5—25 for 6.5×52 R only	6.5	Solid flat-nosed	10.5	3.35
		Flat soft-nosed		
		Solid round-nosed	23	7.4
 8.07—23 B 8.07—23 C 8.1—20 C		Type B	23	7.65
		Type C	23	7.8
		Type C	26	10.0
 8.07—23 B 8.07—23 C 8.1—20 C	7	Type C	26	10.0
	8.07	Type B	23	11.75
		Type C		
 9.3—20 B 9.3—20 C 9.3—25 Soft pointed S Torpedo style	8.1	Type B	20	9.8
		Type C		
	9.3	Solid flat-nosed		
 9.3—20 B 9.3—20 C 9.3—25 Soft pointed S Torpedo style		Type B	20	12.5
		Type C		
	9.3	S-soft-pointed torpedo-style	25 S	13
 9.3—20 B 9.3—20 C 9.3—25 Soft pointed S Torpedo style	11.15	Type B	20	17.55
		Type C		
		5.6 mm bullets in boxes of 100		
	6.5 mm to 9.5 mm in boxes of 50			
	11.15 mm to 11.5 mm in boxes of 25			

Empty Paper Shotgun Cartridge Cases

For Black Powder



"Hussa" brown

Central Fire

Not supplied from stock, but made for orders of not less than 500,000 cases.

A light brown case with 5 mm metal head, 5 mm flat-based or 6.45 mm round-based cap, or 6.45 mm Anvil Primer.

Gauge 12 and Gauge 16.



"Heart" green

Central Fire and Pin Fire

A light green case, with 6 mm metal head.

- 6.45 mm round-based cap Gauge 10
- 6.45 mm round-based cap Gauge 12 and 14
- 6.45 mm round-based cap Gauge 16 to 28
- 6.45 mm round-based cap Gauge 32
- 5 mm flat-based cap Gauge .410
- Pin Fire Gauge 10
- Pin Fire Gauge 12 and 14
- Pin Fire Gauge 16 to 28

Empty Paper Shotgun Cartridge Cases

For Black Powder



"ACORN" brown

Central Fire

A brown case, with printed inscription, 7 mm metal head and 6.45 mm round-based cap.

Gauge 12, 16, and 20.



"RWS" Gastight

Central Fire and Pin Fire

A salmon-colour case, with printed inscription, 8 mm metal head, metal lined, with 6.45 mm round-based cap.

Central Fire Gauge 12
 Central Fire Gauge 16 and 20
 Pin Fire Gauge 12
 Pin Fire Gauge 16

SINOXID primed Cases for Smokeless Powder



"ACORN" yellow

Central Fire

A yellow case, with printed inscription, 7 mm metal head, double steel base, and 6.45 mm flat-based SINOXID caps, long pattern.

Gauge 12, 16 and 20.

SINOXID primed Cases for Smokeless Powder



"U" red Gastight

Central Fire

A red case, with printed inscription, 8 mm metal head, metal lined, double steel base, and SINOXID primer VI (covered type).

All gauges from 10 to 32.



.410

A red, unprinted case with SINOXID primer VI (covered type).



"R" red Gastight

Central Fire

Special Construction of case for Smokeless Rottweil Flake Powder.



A red case, with printed inscription, 8 mm metal head, with double steel base, metal-lined and paper-lined, with SINOXID primer VI (covered type).

Gauge 12, 16 and 20.



**SINOXID primed cases
for Smokeless Powder**

**RWS violet,
Gastight,
with gold printed inscription,**

15 mm metal head, double steel base, and metal lining, and Central Fire SINOXID primer VI.

Gauge 12 and 16.

Normal lengths of Empty Paper Shotgun Cartridge Cases

- Gauge 10 70 mm
- Gauge 12 to 32 65 mm
- Gauge .410 50.8 mm

All cases are put up in packets of 100.

For cases of special construction and with special print or incscription, made to order, prices are given on application.

Cases made to order can be supplied with any desired type of primer.

**Empty Paper Cartridge Cases for flare and
signal cartridges**



82.5 to 135 mm long

Calibre 4/Gastight

8 mm metal head, metal lined, unprinted, salmon colour case, with 6.45 mm primers for Black Powder.

- Cal. 4/82.5 mm long in boxes of 25
- Cal. 4/135 mm long in boxes of 25

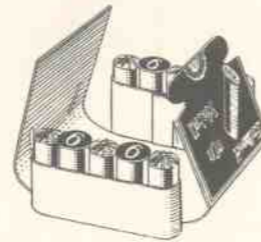
In case of orders for substantial quantities, cases can be made to order in any desired construction, length, or colour.



The new
Shotgun
Cartridge

PATENTED IN ALL CIVILIZED STATES.

- Shell entirely of metal and drawn from one piece.
- Absolutely waterproof, therefore always safe in use.
An ideal cartridge for Wildfowl-Shooting and for the tropics.
- Indifferent to change of weather, moisture and temperature,
storage question therefore of no importance.
- Crimping without overshoot wad ensures most regular pattern.
- The size of shot is clearly shown on the
base of each cartridge. English shot sizes.
- The lightest of all Shotgun-Cartridges,
taking up the least space-requirement.
- **Efficient to the packing.**



A Rottweil Cartridge,
developed with RWS-experience
and thoroughness!

The crimping of the cartridges in our patent way and the carefully balanced load ensures a regular dispersion of the shot, giving extreme penetration at high initial velocity. After having been subjected to a 72 hours trial under water, no permeation of moisture could be found.

Special covered type of SINOXID Primer VI.

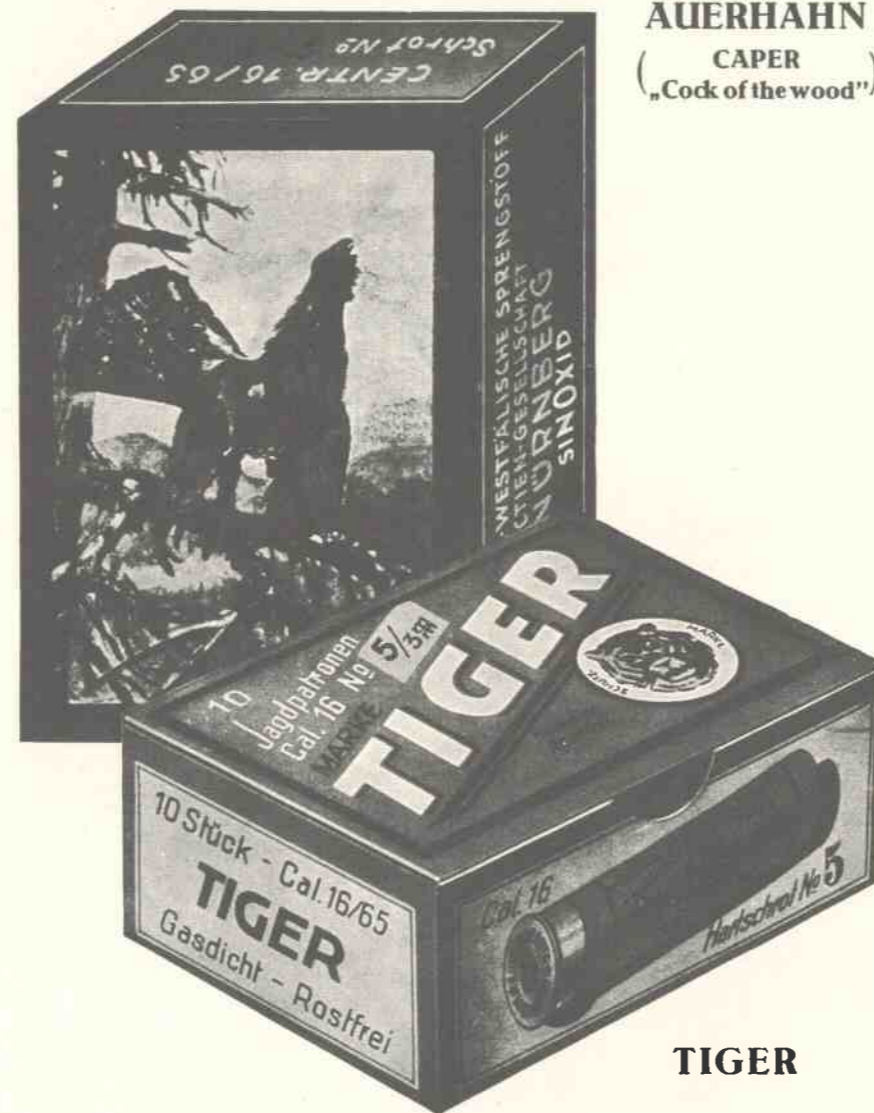
Length of Cartridge loaded 50.5 mm,
when fired 56 mm.

“Rottweil Metall” Cartridges can be shot from any gun chambered for cartridges of 65 or 70 mm length. They are, however, not suited for use in automatic guns.

“Rottweil Metall” Cartridges can be supplied at present in cal. 12 and 16.



Shotgun Cartridges



**AUERHAHN
CAPER**
„Cock of the wood“

TIGER

Famous for excellent ballistics
- Water-Resisting -

SINOXID



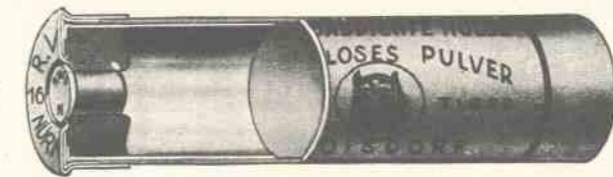
Shotgun Cartridges

Smokeless

SINOXID

Gastight

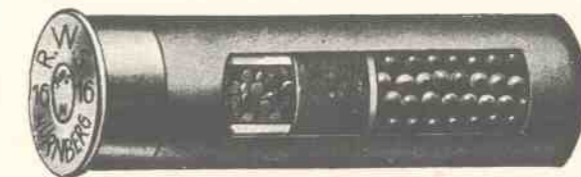
TIGER



**Empty
Case**

Perfectly finished, water-resisting, red paper case of gas-tight construction, with metal and paper lining, double steel base and special SINOXID primer VI (covered type).

TIGER



**Loaded
Cartridge**

Well balanced charge of Rottweil smokeless Flake powder, carefully selected wadding, and best chilled shot.

TIGER



.410 gauge

Special primer VI (covered type).

All sizes from 12 to 32 bore, with and without shot, obtainable 65 and 70 mm long, .410 bore in both lengths, i. e. 50.8 and 65 mm.

Shotgun Cartridges Various Brands

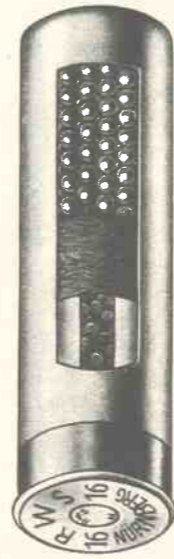


CAPER
("cock of the wood")

Smokeless

SINOXID

The
popular and
inexpensive
RWS Cartridge



"ACORN" Brand

Black Powder

Brown case, with primer I (6.45 mm cap) for best Rottweil
Black Powder No. 4.

Brand	Gauge	Length mm		
Caper	12	65	with Shot	without Shot
Caper	16 and 20	65	with Shot	without Shot
Acorn	12	65	with Shot	without Shot
Acorn	16	65	with Shot	without Shot

The Standard packing of our Shotgun Cartridges is 25 to one box. On request they can as well be supplied in boxes of 10.

Comparative Table of Shot

Milli- metres	German No.	French No.	Ameri- can No.	English No.	Swe- dish No.	Dutch No.	Austri- an No.	Swiss No.	Bel- gian No.
10	Posten I	—	—	—	—	—	—	—	—
9.85	—	—	Buck 1	—	—	—	—	—	—
9	" II	—	" 2	LG	—	—	—	—	—
8.8	—	—	—	MG	—	—	—	—	—
8 1/2	—	C. 2	" 3	SG	—	—	—	—	—
8	" III	C. 3	" 4	—	—	—	—	—	—
7 1/2	—	C. 4	" 5	Spec. SG	—	—	—	—	—
7	" IV	C. 5	" 6	—	—	—	—	—	—
6.85	—	C. 6	—	SSG	—	—	—	—	—
6 1/2	" V	—	" 8	—	—	—	—	—	—
6 1/4	—	C. 7 or 8	—	SSSG	—	—	—	—	—
6	" VI	—	" 9	—	—	—	—	—	—
5 3/4	—	—	—	SSSSG	—	—	—	—	—
5 1/2	6/0	—	000	SSSSGorAAAA	—	—	—	—	—
5 1/4	5/0	C. 9	00	AAA	12	—	—	—	4/0
5	4/0	0000	0	AA	11	—	1	—	3/0
4 3/4	3/0	000	BBB	—	10	—	2	—	2/0
4 1/2	2/0	00	BB	A or BBBB	9	—	4	—	0
4 1/4	0	0	B	BBB	8	00	5	2	1
4	1	1	1	BB	7	0 or 1	6	—	2
3 3/4	2	2	2	B	6	3	7	4	3
3.65	—	—	—	1	—	—	—	—	—
3 1/2	3	3	3	2	5	4 or 5	8	5	4
3 1/4	4	4	4	3	4	—	9	6	5
3	5	5	5	4	3	G 6	10	—	Gr. 6
2.85	—	—	—	4 1/2	—	—	—	—	—
2.8	—	—	6	5	—	K 6	—	—	—
2 3/4	6	6	—	5 1/2 (m. g.)	2	—	11	7	Kl. 6
2 1/2	7	7	7	6 1/2	1	—	12	8	7
2.4	—	—	7 1/2	7	—	7	13	—	—
2 1/4	8	8	8	8	0	8	14	—	8
2	9	9	9	9	00	9	15	9	9
1 3/4	10	10	10	10	—	10	—	10	10
1.7	—	—	—	11	—	11	—	—	—
1 1/2	11	11	11	12	—	12	—	—	11
1 1/4	12	12	12	Dust	—	—	—	—	12
1	—	—	Dust	—	—	—	—	—	—

Approximate number of pellets contained in shot charges

Gauge of Cartridge	Weight of Shot Charge g	Size of Shot in millimetres								
		4	3 3/4	3 1/2	3 1/4	3	2 3/4	2 1/2	2 1/4	2
12	35	94	113	138	175	219	285	375	538	725
12	32	86	103	126	160	200	263	343	490	663
16	30	80	96	118	150	188	246	321	460	621
16	28	75	90	110	140	175	230	300	430	580
20	25	67	80	98	125	156	208	268	382	518
24	20	54	64	78	100	125	169	214	306	414
28	18	48	58	70	90	112	153	193	276	373
32	16	43	51	62	80	100	136	171	245	332



Wads for Shotgun Cartridges



No.	Description	
17	Over-Shot Card Wads, unprinted	In boxes of 1000
18	Over-Shot Card Wads, printed with size of shot	In boxes of 1000
47	Greaseproof Card Wads, (black)	In boxes of 1000
3	Card Wads, 6—7 mm thick, covered on both sides . .	In boxes of 500
	Card Wads, 9—10 mm thick, covered on both sides . .	In boxes of 500
46	Felt Wads, 7—9 mm thick, ungreased, covered on both sides	In boxes of 500
	Felt Wads, 10—12 mm thick, ungreased, covered on both sides	In boxes of 500
85 E	Feltine Wads, greased and covered on both sides	In boxes of 1/4 kg
84	Felt Wads, II a, brown, greased, uncovered	In boxes of 1/4 kg
60	Felt Wads, I a, brown, greased, uncovered	In boxes of 1/4 kg
78	Felt Wads, II a, brown, covered and greased, 16 and 12 gauge	In boxes of 1/4 kg
85	Felt Wads, I a, brown, covered and greased	In boxes of 1/4 kg

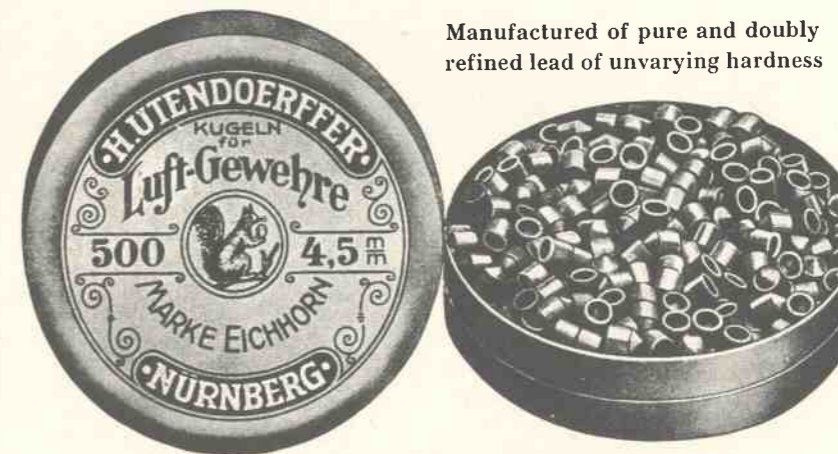
For all calibres from .410 to 12 bore.



Air Gun Pellets "Squirrel" Brand



Manufactured of pure and doubly
refined lead of unvarying hardness



Box of 500 bullets 4.5 mm

Air Gun Pellets "SQUIRREL" Brand, like every other
RWS-ammunition, to ensure absolute regularity and
accuracy, are manufactured under continuous control.
They will meet the highest demand in regard to accuracy.



natural size



10 shots at 10 m each, using "Squirrel" Brand Air
Gun Pellets 4.5 mm Diabolo with a rifled Air Gun



Air Gun Pellets "Squirrel" Brand



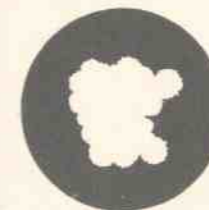
Box of 100 Pellets "DIABOLO" 4.5 mm

Full weight of each Pellet
Absolutely uniform in size and hardness

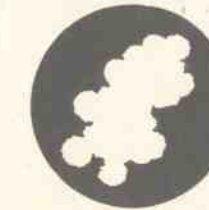
mm	4 plain	4 1/2 ribbed	4 1/2 D Diabolo	5 1/2 plain	5 1/2 ribbed	5 1/2 D Diabolo
In boxes of	500	500	500	500	500	500
In boxes of	200	200	200	—	—	200
In boxes of	100	100	100	—	—	—

mm	5.7 plain	5.75 plain	6 ribbed	6.2 plain	6 1/2 ribbed	6 1/2 ribbed
In boxes of	500	500	500	500	500	500
In boxes of	—	—	—	—	200	—
In boxes of	—	—	—	—	100	—

Round Precision Pellets for use in Air Rifles and similar weapons



20 shots each at 10 m distance with
No. 10 pellets, shot from a rifled
"Haenel" barrel.



These perfectly finished pellets, made of doubly refined lead, are absolutely uniform in size and hardness.

No. 5—21 in boxes of 125 grams.

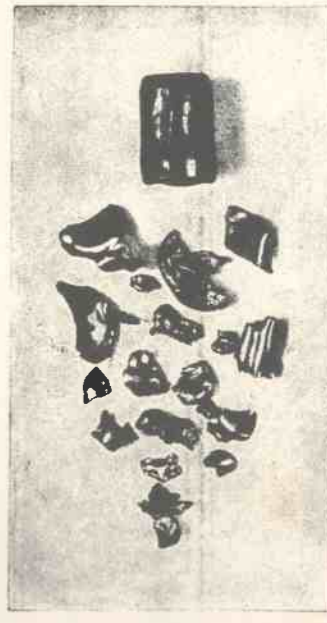


Table of Sizes

No.	5	6	7	8	9	10
Diameter	4.20	4.25	4.30	4.35	4.40	4.45 mm
No.	11	12	13	14	15	16
Diameter	4.50	4.55	4.60	4.65	4.70	4.75 mm
No.	17	18	19	20	21	
Diameter	4.80	4.85	4.90	4.95	5.00 mm	

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and their Operative Effect.

H-MANTLED BULLETS

THE desire for a universal bullet which can safely be used for the various species of game of different strength is as old as the development of modern weapons itself.

Neither lead bullets nor the present current types of soft-pointed metal-coated bullets, comprising a few or more components, will always produce an evenly good effect in the body of the animal. The different ranges, position and movement of the game, vital energy and strength of same, and the point of impact in the body are of decisive influence on the upsetting and disintegration of the bullet. It is only with the H-mantled construction that a type of bullet has been developed which will, to the utmost degree, do justice to the wish for a universal bullet combining in the most favourable manner explosive and penetrative effect and showing the best possible regularity and reliability in regard to its operative effect. This is attained almost without any perceptible difference, no matter whether long or short range, heavy or light game or whether the impact is on soft parts or bones.

By constructing the head of the bullet in the most favourable shape for ballistics, high terminal velocity before anything else is attained. Especially the H-mantled bullets with hollow copper points will show for every calibre the best possible results that have ever been achieved by any bullets of Rifle Cartridges of this kind. High terminal velocity by itself, as will be known, has already a most favourable influence on the disintegration of the bullet and also on its hydrodynamical effect. The process of disintegration of H-mantled bullets on impact is regulated by the circular groove round the bullet, in connection with other constructive features, in such a way, as to ensure the disintegration of the front part of the bullet at the right moment, i. e. after moderate penetration into the body of the game. Thus, in addition to the direct injuries to vital interior organs, the game is subjected to a heavy shock, paralysing the nerves and thus preventing the game taking to flight, provided only such cartridges are used which are appropriate to the size and strength of the animal. A sharp-edged shoulder below the head of the bullet serves to cut an

entry into the skin of the same size as the bullet. This entry alone often causes extensive bleeding and results in the hairs of the skin being cut. H-mantled bullets for Mannlicher-Schoenauer Cartridges for certain reasons are constructed with open hollow points. Owing to their effective form of head for punching the required entry, without having the sharp-edged shoulder, they are only made in the plain construction, i. e. without this shoulder.

The direction of motion of the bottom part of the bullet will hardly show any deviation by the disintegration of the head. As a compact body of sufficient weight and still considerable velocity it will continue its way with high penetrative power into the body of the game, almost in a straight line, thereby causing the flattened head of the bullet to drive before it parts of texture, thus increasing the shock and producing, even on big game, an exit point which will almost always be larger than the calibre of the game. If the body rise to extensive bleeding for tracking the game. The body of the game is weak, the disintegration of the front part of the bullet and the destructive effect of the whole bullet will be less than with the ordinary hollow-point bullet or similar bullets of the old construction. These ordinary bullets, at high terminal velocity will be completely deformed on impact and by their violent effect cause excessive destruction of the game, whilst with low terminal velocity they will have the unsatisfactory effect of solid bullets.

Summing up, the outstanding features of H-mantled bullets are as follows:—

Disintegration of the head of the bullet at the right moment, greatest penetrative effect of the bottom part of the bullet. The breaking-up of the bullet when used on heavy game effects the desired results quickly, effectively, and just at the right time, and almost always ensures an exit point of the bullet. When used on weaker game, however, the whole of the terminal energy will not be transformed into explosive and breaking-up effect, and excessive spoiling of the game will thereby be avoided.

The H-mantled bullet, therefore, is a projectile which regulates and adapts its effect to given circumstances.

The very flat trajectory offers the advantage of not having to change the sighting, when shooting within the usual distances. On the whole it will not be necessary to worry about

the aiming point if shooting at short and medium ranges and, under certain circumstances, not even at long range, provided a sight corresponding to the aimed distance is used. H-mantled bullets are constructed not only for any special weapons, made to handle this type of bullet, but can be shot from any rifle which has been proof-tested for smokeless cartridges with steel-coated bullets, if:—

(1) the rifle is constructed for the use of cartridges with a pressure of not less or not much less than that of the H-mantled bullets;

(2) the chamber and bullet lead require the use of bullets of 30 mm length.

It must therefore be borne in mind that the interior measurements must not be below the following figures:

(Repeating Rifles 8.15 mm)

Cal. 8×60 mm Magnum 8.20 mm

Cal. 9.3 mm 9.28 mm

Cal. 9 mm 9.00 mm

Cal. 8 mm 8.07 mm

Cal. 7 mm 7.22 mm

Cal. 6.5 mm 6.70 mm

Also in the case of the Mannlicher-Schoenauer Rifles of Cal. 6.5 mm, 8 mm, and 9 mm the internal measurements should not be less than the minimum measurements adhered to by the Steyr Works.

Barrels with a bullet lead for short bullets are not suited to be used with H-mantled bullets. They will have to be altered to have the normal (long) bullet lead if they are expected to handle H-mantled bullets to satisfaction, and should be subjected to proof-test before being used in connection with these bullets.

Every smokeless RWS cartridge has the non-mercuric, non-corrosive, and non-erosive  priming



M-mantled bullet with lead point



H-mantled bullet with hollow copper point

All cartridges, constructed with **H**-mantled bullets, can be supplied either with hollow copper points or lead points, according to above illustrations, except Mannlicher-Schoenauer cartridges and cal. 6.5×57, with or without rim, which are provided with hollow-pointed bullets.

6.5x54 M.-Sch.



Mannlicher-Schoenauer, rimless, with open hollow-pointed bullet without shoulder.

6.5x57



Rimless, with open hollow-pointed bullet with shoulder.

6.5x57 R



With rim, with open hollow-pointed bullet with shoulder.

7x57



Rimless, with copper-hollow-pointed or lead-pointed bullet.

7x57 R



With rim, with copper-hollow-pointed or lead-pointed bullet.

7x64 Brenneke



Rimless Brenneke style shell with copper-hollow-pointed or lead-pointed bullet.

7x65 R Brenneke



Brenneke style shell, with rim and copper-hollow-pointed or lead-pointed bullet.

8x56 M.-Sch.



Mannlicher-Schoenauer, rimless, with open hollow-pointed bullet without shoulder.

8x57 I



Rimless, with copper-hollow-pointed or lead-pointed bullet.

8x57 IR



With rim, with copper-hollow-pointed or lead-pointed bullet.

8x60



Rimless, with copper-hollow-pointed or lead-pointed bullet

8x60 R



With rim, with copper-hollow-pointed or lead-pointed bullet.

8x60 Magnum



Rimless, with copper-hollow-pointed or lead-pointed bullet.

8x60 R Magnum



With rim, with copper-hollow-pointed or lead-pointed bullet.

9x56 M.-Sch.



Mannlicher-Schoenauer, rimless with open hollow-pointed bullet without shoulder.

9x57



Rimless, with open hollow-pointed bullet, without shoulder.

9x57 R



With rim, with open hollow-pointed bullet, without shoulder.

9.3x62



Rimless, with copper-hollow-pointed or lead-pointed bullet.

9.3x74 R



With rim, with copper-hollow-pointed or lead-pointed bullet.

Manufacturers: — Rheinisch-Westfälische Sprengstoff-Actien-Gesellschaft, Nuremberg (Germany)