



**Reload**  
**Swiss**<sup>RS</sup>

*The perfect hit!*

# RS 14

## RIFLE-/PISTOL POWDER

### Uses:

RS14 has been developed specifically for the needs of Reload Swiss RS. Boasting a unique combination of minimal bulk density, low energy content and high vivacity, it is suitable for reduced loads, light cowboy action loads and subsonic loads for revolver and rifle calibres.

### Tips:

- Recommended load: Filling level of approx. 50% to 100% for all calibres.
- Lead or copper-plated bullets for handgun calibres.
- Self-loading guns: The self-loading function is not a given for all loadings and calibres.

### Standard calibres:

|               |                |                             |
|---------------|----------------|-----------------------------|
| .38 Special   | .30-30 Win.    | .338 Lapua Mag              |
| .357 Mag.     | .308 Win.      | .375 H&H Mag.               |
| .44 Special   | .30-06 Spring. | .444 Marlin                 |
| .44 Mag.      | .300 Win. Mag. | .45-70 Govt.                |
| .44-40 Win.   | 7,5 x 55 Swiss | .458 Win. Mag.              |
| .45 ACP       | 7.62 x 54 R    | .50 Browning                |
| .45 Colt      | 8 x 51 R Lebel | and other calibres possible |
| .500 S&W Mag. | 8 x 57 IS      |                             |

### Packaging units:

400 g can

### Powder type:

RS14 is a porous, extruded, nitrocellulose-based propellant powder.

### Safe service life:

If properly stored, the propellant powder remains safe to use for up to ten years.

### Verification tolerances:

Batch-to-batch tolerance:  
v5  $\pm 12$  m/s  
pmax  $\pm 250$  bar

### Key characteristics:

|                         |                            |
|-------------------------|----------------------------|
| Heat of explosion       | approx. 3,200 J/g          |
| Bulk density            | approx. 320 g/l            |
| Length x width x height | approx. 1.2 x 1.1 x 0.8 mm |
| Thickness               | approx. 0.3 mm             |

Reload Swiss RS – a registered trademark of Nitrochemie Wimmis AG, Switzerland

Nitrochemie Wimmis AG · Niesenstrasse 44 · CH-3752 Wimmis

# RS 14 Reloading Data

| Calibre                                  | Projectile |                |            | Primer | Start Load   |           |                 | Max. Load    |           |                 |              |
|------------------------------------------|------------|----------------|------------|--------|--------------|-----------|-----------------|--------------|-----------|-----------------|--------------|
| Barrel Length<br>(Twist)                 | Mass<br>gr | Type           | Producer   | Type   | Charge<br>gr | V5<br>m/s | Pressure<br>bar | Charge<br>gr | V5<br>m/s | Pressure<br>bar | C.O.L.<br>mm |
| <b>38 Special</b><br>150mm (1:19")       | 125        | WC HB          | H&N        | SP     | 2.2          | 164       | 473             | 4.5          | 244       | 767             | 30.6         |
|                                          | 148        | WC HB          | H&N        |        | 2.0          | 152       | 709             | 2.7          | 192       | 1,072           | 30.6         |
|                                          | 158        | HP             | H&N        |        | 2.7          | 170       | 574             | 4.5          | 247       | 1,243           | 38.5         |
| <b>357 Magnum</b><br>150mm (1:18.7")     | 125        | FCP TC         | Campro     | SP     | 3.7          | 230       | 677             | 6.2          | 282       | 793             | 40.2         |
|                                          | 158        | RNBB CEPRX     | Ares       |        | 3.1          | 221       | 1,053           | 5.1          | 279       | 1,382           | 40.3         |
|                                          | 158        | TC AccuBull    | H&N        |        | 3.1          | 184       | 829             | 5.1          | 243       | 963             | 40.0         |
|                                          | 180        | TC HS          | H&N        |        | 2.8          | 172       | 830             | 4.6          | 238       | 1,235           | 40.0         |
| <b>44 Rem Mag</b><br>150mm (1:20")       | 200        | TC HS (.428)   | H&N        | LP     | 4.5          | 172       | 296             | 9.0          | 278       | 812             | 39.7         |
|                                          | 240        | FP             | LOS        |        | 4.3          | 156       | 390             | 8.3          | 261       | 1,050           | 40.7         |
|                                          | 240        | RP SP          | Remington  |        | 3.9          | 149       | 466             | 7.7          | 247       | 1,033           | 40.1         |
|                                          | 240        | SWC EPRX       | Ares       |        | 3.9          | 179       | 486             | 7.7          | 278       | 1,435           | 40.8         |
|                                          | 240        | TC HS (.429)   | H&N        |        | 4.2          | 174       | 537             | 8.2          | 258       | 977             | 40.7         |
| <b>45 ACP (Auto)</b><br>127 mm (1:16")   | 200        | HP             | H&N        | LP     | 3.9          | 199       | 584             | 5.1          | 238       | 875             | 30.5         |
|                                          | 230        | RN CEPRX       | Ares       |        | 2.9          | 174       | 605             | 4.2          | 218       | 1,066           | 32.1         |
|                                          | 230        | RN             | H&N        |        | 3.4          | 170       | 583             | 4.8          | 219       | 1,024           | 31.8         |
| <b>45 Colt</b><br>190mm (1:16")          | 200        | SWC            | SNS        | LP     | 4.6          | 214       | 359             | 9.0          | 295       | 612             | 40.4         |
|                                          | 230        | LRN            | Frontier   |        | 4.8          | 211       | 427             | 9.3          | 292       | 798             | 40.4         |
|                                          | 250        | TC HS          | H&N        |        | 4.3          | 170       | 348             | 8.6          | 280       | 940             | 40.0         |
| <b>30-30 Win.</b><br>600mm (1:12")       | 165        | RNFPBB EPRX    | Ares       | LR     | 5.5          | 292       | 1,295           | 11.0         | 396       | 2,171           | 64.0         |
| <b>308 Win.</b><br>450mm (1:8")          | 165        | RN HS          | H&N        | LR     | 8.2          | 319       | 1,445           | 14.2         | 382       | 1,838           | 67.5         |
|                                          | 190        | Sub-X          | Hornady    |        | 11.0         | 315       | 1,709           | 12.8         | 360       | 2,018           | 68.4         |
|                                          | 195        | FB EPRX        | Ares       |        | 8.3          | 321       | 1,508           | 13.1         | 380       | 1,780           | 68.3         |
|                                          | 200*       | B416 Subsonic  | Lapua      |        | 10.5         | 320       | 1,924           | 12.3         | 346       | 1,969           | 66.6         |
|                                          | 240        | HPBT MK        | Sierra     |        | 12.0         | 288       | 1,868           | 12.8         | 317       | 2,133           | 71.0         |
| <b>7.5 x 55 Swiss</b><br>650mm (1:10.6") | 165        | RN HS          | H&N        | LR     | 11.7         | 331       | 1,592           | 18.7         | 398       | 1,898           | 71.3         |
|                                          | 165        | RNFPBB EPRX    | Ares       |        | 7.7          | 326       | 921             | 16.2         | 465       | 1,766           | 67.7         |
|                                          | 175        | HPBT           | Sierra     |        | 11.7         | 291       | 1,643           | 18.5         | 407       | 2,135           | 75.0         |
|                                          | 200        | FMJ Subsonic   | Lapua      |        | 16.0         | 320       | 2,033           | 17.7         | 343       | 2,228           | 72.2         |
| <b>338 Lapua Mag.</b><br>650mm (1:11")   | 250        | Scenar         | Lapua      | LRM    | 23.6         | 323       | 1,804           | 29.3         | 384       | 2,084           | 88.7         |
|                                          | 300        | HPBT           | Sierra     |        | 24.4         | 312       | 2,090           | 27.8         | 337       | 2,082           | 88.7         |
| <b>444 Marlin</b><br>600mm (1:38")       | 240        | TC HS CR       | H&N        | LR     | 9.5          | 313       | 764             | 19.0         | 395       | 973             | 64.8         |
|                                          | 300        | FPBB EPRX      | Ares       |        | 8.0          | 268       | 839             | 16.0         | 375       | 1,992           | 64.8         |
| <b>45 - 70 Govt.</b><br>600mm (1:20")    | 295        | FP Silver Moly | WM         | LR     | 11.0         | 316       | 899             | 22.0         | 398       | 1,416           | 64.0         |
|                                          | 300        | RNFPBB EPRX    | Ares       |        | 10.5         | 301       | 1,035           | 21.0         | 405       | 1,668           | 64.0         |
|                                          | 405        | FPSBB EPRX     | Ares       |        | 9.0          | 240       | 930             | 18.0         | 338       | 1,894           | 64.0         |
| <b>50 Browning</b><br>1143 mm (1:15")    | 695        | Solid          | Ingold     | BMG    | 46.3         | 381       | 1,754           | 72.5         | 466       | 1,682           | 133.4        |
|                                          | 750        | A-Max          | Hornady    |        | 46.3         | 326       | 1,712           | 69.4         | 431       | 1,865           | 138.4        |
|                                          | 801        | Solid          | Clearwater |        | 40.1         | 325       | 1,551           | 69.4         | 439       | 1,742           | 138.4        |

| * 308 Win. Subsonic in Temperature Range             |     |       |       |       |
|------------------------------------------------------|-----|-------|-------|-------|
| Load Ratio = 77 %, SD = Standard Deviation, 10 Shots |     |       |       |       |
| Temperature                                          | °C  | -30   | 21    | 50    |
| V5 mean                                              | m/s | 316   | 320   | 324   |
| V5 SD                                                | m/s | 4.0   | 2.0   | 3.9   |
| V5 min                                               | m/s | 309   | 317   | 318   |
| V5 max                                               | m/s | 322   | 323   | 331   |
| Pmax                                                 | bar | 1,832 | 1,924 | 1,969 |
| Pmax SD                                              | bar | 36    | 44    | 82    |



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