

8 Rem Mag - RS60 78.4gr - RWS Evo 201gr - 954m/s - AOL 91mm

mercoledì, 24. dicembre 2014

15:22

RICARICA 8RemMag RS60-78e4gr - L91.00 - RWSEvo201gr - 954m/s

WARNING: Since we have no control over equipment or data which may be used with this program, no responsibility is implied or assumed for results obtained through its use. Input data and results may be incorrect or wrong. Therefore the use of this data for loading ammunition can cause serious injury to personnel and material. The computer-results had to be checked against data available in current loading manuals.

LOT-TO-LOT VARIATIONS OF POWDERS, PRIMER SUBSTITUTION AND COMPONENT CHANGE OFTEN RAISE PRESSURES TO UNSAFE LEVELS. THE USER MUST ASSUME THE ENTIRE RISK OF USING THIS DATA FOR LOADING PURPOSES.

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User Data:	Date:24-dic-2014	Time:15:19:21	File: 8remmagrs60-78.4gr-rwsevo200gr-vo954ms-oal9	
Cartridge / Caliber	8 mm Rem. Mag.	Bullet	.323, 201, RWS Evolution	
Maximum Average Pressure, allowed	4600 bar	66717 psi. (Piezo CIP)	with hollowbase	
Groove Caliber	8.2 mm	0.323 in.	Bullet Weight	13.03 gm 201.0 gr.
Case Capacity, overflow	6.363 cm³	98.0 gr. H2O	Bullet Length	31.5 mm 1.240 in.
Case Length	72.39 mm	2.850 in.	Bullet Seating Depth	12.89 mm 0.507 in.
Cartridge O.A. Length	91.0 mm	3.583 in.	Barrel/Tube Length	660.4 mm 26.0 in.
Shot Start / Init Pressure	250.0 bar	3626 psi.	Cross Section Area of Bore	0.5217 cm² 0.08086 in.²

Propellant type	ReloadSwiss RS 60				
Charge Weight	5.08 gm	78.4 gr.	Load Density	0.893 gm/cm³	225.8 gr./in.³
Heat of Explosion, Potential	3990 J/gm	258.5 J/gr.	Energy Density of Charge	3562 J/cm³	58371 J/in.³
Propellant Solid Density	1.61 gm/cm³	407.15 gr./in.³	Used Ratio of Specific Heats cp/cv	1.2291	
Burning Rate Factor Ba	0.468 1/s		Weighting Factor	0.5	
Burning Function Limit Z1	0.695		Prog.-/ Degressivity Factor a0	0.669	
Factor b	2.192		Bulk Density	0.965 gm/cm³	244.0 gr./in.³

Calculated and Estimated Data:

Bullet Shank Seating Depth	12.89 mm	0.507 in.	Capacity Displaced by Seated Bullet	0.672 cm ³	0.041 in. ³
Useable Case Capacity	5.691 cm ³	0.3473 in. ³	Bullet Travel at Muzzle Exit	600.9 mm	23.66 in.
Loading Ratio("Density") / Filling	92.5 %		Charge Fraction Burnt at Shot Start	1.36 %	

Predicted Data:

Maximum Chamber Pressure	4508 bar	65390 psi.	Bullet Travel at Pmax	69.8 mm	2.75 in.
at Muzzle Exit:					
Bullet Velocity	954.4 m/s	3131 fps.	Pressure at Muzzle	746 bar	10817 psi.
Bullet Energy	5932 Joule	4376 ft.lbs.	Bullet Barrel Time	1.170 ms	
Propellant Burnt	100.0 %		Ballistic Efficiency	29.3 %	

Additional Data:

Powder Lot	Primer Type and Lot
Bullet Lot	Case Manufacturer
Measured Muzzle Vel., StdDev.	Measured Pressure, StdDev.

WARNING: Near Maximum Average Pressure - unknown tolerances may cause dangerous pressures !
Real maximum (peak) of pressure is reached while bullet moves within barrel.
End of combustion reached before bullet's base passes muzzle.

