

8 Rem Mag RS60 Barnes 180gr TSX BT 32306

mercoledì, 6. agosto 2014

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RICARICA 8 Rem Mag - RS60 - 80gr - L91.44 - Barnes TSX BT 180gr

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:6-ago-2014		Time:20:42:00		File: 8remmagbarnestxs bt180grrs60-80.dat	
Cartridge / Caliber		8 mm Rem. Mag.		Bullet		.323, 180, Barnes 'TSX' BT 32	
Maximum Average Pressure, allowed	4600 bar	66717 psi. (Piezo CIP)		with boattail			
Groove Caliber	8.2 mm	0.323 in.		Bullet Weight	11.66 gm	180.0 gr.	
Case Capacity, overflow	6.363 cm³	98.0 gr. H2O		Bullet Length	32.26 mm	1.270 in.	
Case Length	72.39 mm	2.850 in.		Bullet Seating Depth	13.2 mm	0.520 in.	
Cartridge O.A. Length	91.44 mm	3.600 in.		Barrel/Tube Length	660.4 mm	26.0 in.	
Shot Start / Init Pressure	300.0 bar	4351 psi.		Cross Section Area of Bore	0.5217 cm²	0.08086 in.²	
Propellant type		ReloadSwiss RS 60					
Charge Weight	5.184 gm	80.0 gr.		Load Density	0.912 gm/cm³	230.6 gr./in.³	
Heat of Explosion, Potential	3990 J/gm	258.5 J/gr.		Energy Density of Charge	3640 J/cm³	59649 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	10.03 mm	0.395 in.	Capacity Displaced by Seated Bullet	0.68 cm³	0.0415 in.³
Useable Case Capacity	5.683 cm³	0.3468 in.³	Bullet Travel at Muzzle Exit	601.21 mm	23.67 in.
Loading Ratio("Density") / Filling	94.5 %		Charge Fraction Burnt at Shot Start	1.56 %	

Predicted Data:

Maximum Chamber Pressure	4475 bar	64905 psi.	Bullet Travel at Pmax	65.7 mm	2.59 in.
at Muzzle Exit:					
Bullet Velocity	1003.6 m/s	3292 fps.	Pressure at Muzzle	748 bar	10853 psi.
Bullet Energy	5874 Joule	4333 ft.lbs.	Bullet Barrel Time	1.119 ms	
Propellant Burnt	100.0 %		Ballistic Efficiency	28.4 %	

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.

