8x57IS - Barnes TTSX BT 160gr - RS50 50gr - L76mm

martedì, 16. dicembre 2014 20:03

RICARICA 8x57IS RS50-50gr - L76.00 - BarnesTTSXBT160gr - 855m/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 personnell 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:16-dic-2014		Time:20:00:22 File: 8x57is-rs50-b	s-rs50-barnes 160ttsxbt-50gr-I76mm.dat	
Cartridge / Caliber	8 x 57 IS (8 mm Mauser CIP)		Bullet	.323, 160, Barnes 'TTSX' BT 3	
Maximum Average Pressure, allowed Groove Caliber Case Capacity, overflow Case Length Cartridge O.A. Length Shot Start / Init Pressure	3900 bar 8.2 mm 4.091 cm ³ 57.0 mm 76.0 mm 300.0 bar	56565 psi. (Pie 0.323 in. 63.01 gr. H2O 2.244 in. 2.992 in. 4351 psi.	Bullet Weight	with boattail 10.37 gm 32.49 mm 13.49 mm 660.4 mm 0.5178 cm ²	160.0 gr. 1.279 in. 0.531 in. 26.0 in. 0.08026 in. ²
Propellant type	ReloadSwiss RS 50				
Charge Weight Heat of Explosion, Potential Propellant Solid Density Burning Rate Factor Ba Burning Function Limit Z1 Factor b	3.24 gm 3815 J/gm 1.61 gm/cm ³ 0.52 1/s 0.394 1.565	50.0 gr. 247.2 J/gr. 407.15 gr./in. ³	Load Density Energy Density of Charge Used Ratio of Specific Heats cp/cv Weighting Factor Prog/ Degressivity Factor a0 Bulk Density	0.954 gm/cm ³ 3639 J/cm ³ 1.239 0.5 1.231 0.957 gm/cm ³	59633 J/in. ³
Calculated and Estimated Da	ata:				
Bullet Shank Seating Depth Useable Case Capacity Loading Ratio("Density") / Filling	10.32 mm 3.397 cm ³ 99.7 %	0.406 in. 0.2073 in. ³	Capacity Displaced by Seated Bullet Bullet Travel at Muzzle Exit Charge Fraction Burnt at Shot Start	0.694 cm³ 616.89 mm 1.41 %	0.0424 in. ³ 24.29 in.
Predicted Data:					
Maximum Chamber Pressure	3461 bar	50204 psi.	Bullet Travel at Pmax	33.3 mm	1.31 in.
at Muzzle Exit: Bullet Velocity Bullet Energy Propellant Burnt	854.6 m/s 3787 Joule 94.9 %	2804 fps. 2793 ft.lbs.	Pressure at Muzzle Bullet Barrel Time Ballistic Efficiency	457 bar 1.223 ms 30.6 %	6621 psi.
Additional Data:					
Powder Lot Bullet Lot Measured Muzzle Vel., StdDev.			Primer Type and Lot Case Manufacturer Measured Pressure, StdDev.		

Check Loading Manuals for Safe Minimum Charge Weight to Avoid Hazardous Ignition Conditions like Secondary Explosion Effects! Real maximum (peak) of pressure is reached while bullet moves within barrel. End of combustion occurs after the bullet's base passes muzzle.

