8x57IS - Barnes TSX 180gr - SwissReload50 = 53.20gr

RICARICA 8x57IS SwissReload50 - L82.00 - Barnes TSX BT 180gr - 53.21gr
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.

QuickLOAD® V.3.8.03 #130663, © Copyright 1987-2013 - H.Broemel, Babenhausen, Germany

Hann Datas	Date:3-nov-2014		Time:23:40:29 File: 8x57is-rs50-barnes 180tsxbt-53.20gr.dat			2 20ar dat
User Data:	Date:3-nov-2014		Time:23:40:29	riie: 8x5/is-rs50-ba	nes 180tsxbt-53.20gr.dat	
Cartridge / Caliber	8 x 57 IS (8 mm Mauser CIP)		Bullet		.323, 180, Barnes 'TSX' BT 32	
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 cm³ 57.0 mm 81.99 mm 300.0 bar	56565 psi. (Pie 0.323 in. 63.01 gr. H2O 2.244 in. 3.228 in. 4351 psi.	Bullet Weight	'n	with boattail 11.66 gm 32.26 mm 7.26 mm 660.4 mm 0.5178 cm <sup>2</sup>	180.0 gr. 1.270 in. 0.286 in. 26.0 in. 0.08026 in. <sup>2</sup>
Propellant type	ReloadSwiss RS 50					
Charge Weight Heat of Explosion, Potential Propellant Solid Density Burning Rate Factor Ba Burning Function Limit Z1 Factor b	3.448 gm 3815 J/gm 1.61 gm/cm <sup>3</sup> 0.52 1/s 0.394 1.565	53.21 gr. 247.2 J/gr. 407.15 gr./in. <sup>3</sup>	Load Density Energy Density of Used Ratio of Spe Weighting Factor Prog/ Degressivit Bulk Density	cific Heats cp/cv	0.925 gm/cm <sup>3</sup> 3530 J/cm <sup>3</sup> 1.239 0.5 1.231 0.957 gm/cm <sup>3</sup>	57846 J/in. <sup>3</sup>
Calculated and Estimated Data:						
Bullet Shank Seating Depth Useable Case Capacity Loading Ratio("Density") / Filling	4.09 mm 3.726 cm <sup>3</sup> 96.7 %	0.161 in. 0.2274 in. <sup>3</sup>	Capacity Displace Bullet Travel at Mu Charge Fraction B		0.365 cm <sup>3</sup> 610.66 mm 1.51 %	0.0222 in. <sup>3</sup> 24.04 in.
Predicted Data:						
Maximum Chamber Pressure at Muzzle Exit:	3818 bar	55372 psi.	Bullet Travel at Pmax		35.8 mm	1.41 in.
Bullet Velocity Bullet Energy Propellant Burnt	851.7 m/s 4231 Joule 98.2 %	2794 fps. 3121 ft.lbs.	Pressure at Muzzle Bullet Barrel Time Ballistic Efficiency		506 bar 1.227 ms 32.2 %	7343 psi.
Additional Data:						
Powder Lot Bullet Lot Measured Muzzle Vel., StdDev.			Primer Type and L Case Manufacture Measured Pressur	r	RWS 5341 LR	Sinoxid

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 occurs after the bullet's base passes muzzle.

