

8x57IS - Evo 200gr - RS50 49.4gr - OAL 76mm - Vo 800m/s

martedì, 25. novembre 2014  
22:07

# RICARICA 8x57IS SwissReload50 - L76.00 - RWS Evo 200gr - 49.4gr - 800m/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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<b>User Data:</b>	<b>Date:25-nov-2014</b>		<b>Time:22:05:57</b>		<b>File: 8x57is-rs50-evo200gr-49.40gr-l76mm.dat</b>	
<b>Cartridge / Caliber</b>	<b>8 x 57 IS (8 mm Mauser CIP)</b>		<b>Bullet</b>	<b>.323, 201, RWS Evolution</b>		
Maximum Average Pressure, allowed	3900 bar	56565 psi. (Piezo CIP)		with hollowbase		
Groove Caliber	8.2 mm	0.323 in.	Bullet Weight	13.03 gm	201.0 gr.	
Case Capacity, overflow	4.091 cm³	63.01 gr. H2O	Bullet Length	31.5 mm	1.240 in.	
Case Length	57.0 mm	2.244 in.	Bullet Seating Depth	12.5 mm	0.492 in.	
Cartridge O.A. Length	76.0 mm	2.992 in.	Barrel/Tube Length	660.4 mm	26.0 in.	
Shot Start / Init Pressure	250.0 bar	3626 psi.	Cross Section Area of Bore	0.5178 cm²	0.08026 in.²	
<b>Propellant type</b>						
	<b>ReloadSwiss RS 50</b>					
Charge Weight	3.201 gm	49.4 gr.	Load Density	0.931 gm/cm³	235.4 gr./in.³	
Heat of Explosion, Potential	3815 J/gm	247.2 J/gr.	Energy Density of Charge	3551 J/cm³	58190 J/in.³	
Propellant Solid Density	1.61 gm/cm³	407.15 gr./in.³	Used Ratio of Specific Heats cp/cv	1.239		
Burning Rate Factor Ba	0.52 1/s		Weighting Factor	0.5		
Burning Function Limit Z1	0.394		Prog.-/ Degressivity Factor a0	1.231		
Factor b	1.565		Bulk Density	0.957 gm/cm³	242.0 gr./in.³	
<b>Calculated and Estimated Data:</b>						
Bullet Shank Seating Depth	12.5 mm	0.492 in.	Capacity Displaced by Seated Bullet	0.652 cm³	0.0398 in.³	
Useable Case Capacity	3.439 cm³	0.2099 in.³	Bullet Travel at Muzzle Exit	615.9 mm	24.25 in.	
Loading Ratio("Density") / Filling	97.3 %		Charge Fraction Burnt at Shot Start	1.24 %		
<b>Predicted Data:</b>						
Maximum Chamber Pressure	3837 bar	55649 psi.	Bullet Travel at Pmax	33.9 mm	1.33 in.	
<b>at Muzzle Exit:</b>						
Bullet Velocity	799.8 m/s	2624 fps.	Pressure at Muzzle	472 bar	6841 psi.	
Bullet Energy	4167 Joule	3073 ft.lbs.	Bullet Barrel Time	1.291 ms		
Propellant Burnt	98.8 %		Ballistic Efficiency	34.1 %		
<b>Additional Data:</b>						
Powder Lot			Primer Type and Lot	RWS 5341 LR Sinoxid		
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 occurs after the bullet's base passes muzzle.

