308 win - Sierra 180grn - 819m/s

sabato, 7. marzo 2015 16:27

RICARICA 308win-Sierra hpbt 180grn

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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	Date:7-mar-20	015	Time:16:25:02 File: 308winrs50-si	ierra180grhpbt2	220c-45.4grn-81
Cartridge / Caliber	.308 Win. (CIP)		Bullet	.308, 180, Sierra HP MatchK	
Maximum Average Pressure, allowed Groove Caliber Case Capacity, overflow Case Length Cartridge O.A. Length Shot Start / Init Pressure	4150 bar 7.82 mm 3.636 cm ³ 51.16 mm 70.5 mm 250.0 bar	60191 psi. (Pie 0.308 in. 56.0 gr. H2O 2.014 in. 2.776 in. 3626 psi.	ezo CIP) Bullet Weight Bullet Length Bullet Seating Depth Barrel/Tube Length Cross Section Area of Bore	with boattail 11.66 gm 32.51 mm 13.16 mm 660.4 mm 0.4751 cm ²	180.0 gr. 1.280 in. 0.518 in. 26.0 in. 0.07364 in. ²
Propellant type	ReloadSwiss	RS 50			
Charge Weight Heat of Explosion, Potential Propellant Solid Density Burning Rate Factor Ba Burning Function Limit Z1	2.942 gm 3815 J/gm 1.61 gm/cm ³ 0.52 1/s 0.394	45.4 gr. 247.2 J/gr. 407.15 gr./in. ³	Weighting Factor Prog/ Degressivity Factor a0	0.966 gm/cm ³ 3686 J/cm ³ 1.239 0.5 1.231	60403 J/in. ³
Factor b	1.565		Bulk Density	0.957 gm/cm ³	242.0 gr./in.
Calculated and Estimated Da	ıta:				
Bullet Shank Seating Depth Useable Case Capacity	9.6 mm 3.045 cm ³ 101.0 % = cor	0.378 in. 0.1858 in. ³ mpressed	Capacity Displaced by Seated Bullet Bullet Travel at Muzzle Exit Charge Fraction Burnt at Shot Start	0.591 cm ³ 622.4 mm 1.13 %	0.0361 in. ³ 24.5 in.
Bullet Shank Seating Depth Useable Case Capacity Loading Ratio("Density") / Filling	9.6 mm 3.045 cm ³	0.1858 in.3	Bullet Travel at Muzzle Exit	622.4 mm	
Calculated and Estimated Da Bullet Shank Seating Depth Useable Case Capacity Loading Ratio("Density") / Filling Predicted Data: Maximum Chamber Pressure at Muzzle Exit:	9.6 mm 3.045 cm ³	0.1858 in.3	Bullet Travel at Muzzle Exit	622.4 mm	
Bullet Shank Seating Depth Useable Case Capacity Loading Ratio("Density") / Filling Predicted Data: Maximum Chamber Pressure at Muzzle Exit: Bullet Velocity Bullet Energy	9.6 mm 3.045 cm ³ 101.0 % = cor	0.1858 in. ³ mpressed	Bullet Travel at Muzzle Exit Charge Fraction Burnt at Shot Start	622.4 mm 1.13 %	24.5 in.
Bullet Shank Seating Depth Useable Case Capacity Loading Ratio("Density") / Filling Predicted Data: Maximum Chamber Pressure	9.6 mm 3.045 cm ³ 101.0 % = cor 4088 bar 818.7 m/s 3909 Joule	0.1858 in. ³ mpressed 59288 psi. 2686 fps.	Bullet Travel at Muzzle Exit Charge Fraction Burnt at Shot Start Bullet Travel at Pmax Pressure at Muzzle Bullet Barrel Time	622.4 mm 1.13 % 31.7 mm 461 bar 1.251 ms	24.5 in. 1.25 in.

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.

