308win - Sierra SPBT 200gr 2165 - RS50 43,38grs - Vo=774m/s

sabato, 24. gennaio 2015 19:16

RICARICA 308win RS50-43e38gr - L71.12 - SierraSPBT200gr - 774m/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.

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

.da

User Data:	Date:24-gen-2015		Time:19:12:25 File: 308winsierraspbt200grrs5043e38grsvo774ms		
Cartridge / Caliber	.308 Win. (CIP)		Bullet	.308, 200, Sierra SPBT 2165	
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 71.12 mm 250.0 bar	60191 psi. (Pie 0.308 in. 56.0 gr. H2O 2.014 in. 2.800 in. 3626 psi.	ezo CIP) Bullet Weight Bullet Length Bullet Seating Depth Barrel/Tube Length Cross Section Area of Bore	with boattail 12.96 gm 35.56 mm 15.59 mm 660.4 mm 0.4751 cm ²	200.0 gr. 1.400 in. 0.614 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 Factor b	2.811 gm 3815 J/gm 1.61 gm/cm ³ 0.52 1/s 0.394 1.565		Load Density Energy Density of Charge Used Ratio of Specific Heats cp/cv Weighting Factor Prog/ Degressivity Factor a0 Bulk Density	0.947 gm/cm ³ 3614 J/cm ³ 1.239 0.5 1.231 0.957 gm/cm ³	59223 J/in. ³
Calculated and Estimated Da	ıta:				
Bullet Shank Seating Depth Useable Case Capacity Loading Ratio("Density") / Filling	9.37 mm 2.967 cm ³ 99.0 %	0.369 in. 0.1811 in. ³	Capacity Displaced by Seated Bullet Bullet Travel at Muzzle Exit Charge Fraction Burnt at Shot Start	0.669 cm ³ 624.83 mm 1.19 %	0.0408 in. ³ 24.6 in.
Predicted Data:					
Maximum Chamber Pressure at Muzzle Exit:	4078 bar	59148 psi.	Bullet Travel at Pmax	31.0 mm	1.22 in.
Bullet Velocity Bullet Energy Propellant Burnt	773.6 m/s 3879 Joule 99.4 %	2538 fps. 2861 ft.lbs.	Pressure at Muzzle Bullet Barrel Time Ballistic Efficiency	444 bar 1.320 ms 36.2 %	6438 psi.
Additional Data:					
Powder Lot Bullet Lot Measured Muzzle Vel., StdDev.			Primer Type and Lot Case Manufacturer 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.

