338 win mag - Nosler AccuBond 200gr

mercoledì, 11. marzo 2015
22:42

RICARICA 338 Win Mag - Nosler AccuBond 200gr

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:11-mar-2015 **Time:22:39:19** **File: 338winmagnosleraccubond200grrs60-72e51gn-9**

Comment	**RS60 72,51gn - Velocità 940 m/s**				
Cartridge / Caliber	**.338 Win Mag.**		**Bullet**	**.338, 200, Nosler Accubond 5**	
Maximum Average Pressure, allowed	4300 bar	62366 psi. (Piezo CIP)		with boattail	
Groove Caliber	8.59 mm	0.338 in.	Bullet Weight	12.96 gm	200.0 gr.
Case Capacity, overflow	5.584 cm³	86.0 gr. H2O	Bullet Length	34.09 mm	1.342 in.
Case Length	63.5 mm	2.500 in.	Bullet Seating Depth	12.75 mm	0.502 in.
Cartridge O.A. Length	84.84 mm	3.340 in.	Barrel/Tube Length	660.4 mm	26.0 in.
Shot Start / Init Pressure	250.0 bar	3626 psi.	Cross Section Area of Bore	0.5695 cm²	0.08827 in.²
Propellant type	**ReloadSwiss RS 60**				
Charge Weight	4.699 gm	72.51 gr.	Load Density	0.965 gm/cm³	244.0 gr./in.³
Heat of Explosion, Potential	3990 J/gm	258.5 J/gr.	Energy Density of Charge	3850 J/cm³	63090 J/in.³
Propellant Solid Density	1.61 gm/cm³	407.15 gr./in.³	Used Ratio of Specific Heats cp/cv	1.2291	
Burning Rate Factor Ba	0.468 1/s		Weighting Factor	0.5	
Burning Function Limit Z1	0.695		Prog.-/ Degressivity Factor a0	0.669	
Factor b	2.192		Bulk Density	0.965 gm/cm³	244.0 gr./in.³

Calculated and Estimated Data:

Bullet Shank Seating Depth	8.97 mm	0.353 in.	Capacity Displaced by Seated Bullet	0.714 cm³	0.0436 in.³
Useable Case Capacity	4.87 cm³	0.2972 in.³	Bullet Travel at Muzzle Exit	609.65 mm	24.0 in.
Loading Ratio("Density") / Filling	100.0 %		Charge Fraction Burnt at Shot Start	1.14 %	
Predicted Data:					
Maximum Chamber Pressure	4028 bar	58427 psi.	Bullet Travel at Pmax	46.4 mm	1.83 in.
at Muzzle Exit:					
Bullet Velocity	939.7 m/s	3083 fps.	Pressure at Muzzle	634 bar	9196 psi.
Bullet Energy	5722 Joule	4221 ft.lbs.	Bullet Barrel Time	1.164 ms	
Propellant Burnt	100.0 %		Ballistic Efficiency	30.5 %	

Additional Data:

Powder Lot	Primer Type and Lot
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 reached before bullet's base passes muzzle.