338 Lapua Mag - Berger Hunt 300gr

mercoledì, 1. aprile 2015 05:09

RICARICA 338 Lapua Mag - Berger Hunt 300gr
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:1-apr-2015		Time:05:05:52 File: 338lapuamagnum300grberger-normamrp80g		
Comment	Norma MRP 80gn - Velocità 800 m/s - 6226 J				
Cartridge / Caliber	.338 Lapua Mag.		Bullet	.338, 300, Berger Hunt Hybri	
Maximum Average Pressure, allowed Groove Caliber Case Capacity, overflow Case Length Cartridge O.A. Length Shot Start / Init Pressure	4200 bar 8.59 mm 7.012 cm ³ 69.19 mm 93.5 mm 250.0 bar	60916 psi. (Pie 0.338 in. 108.0 gr. H2O 2.724 in. 3.681 in. 3626 psi.	Bullet Weight	with boattail 19.44 gm 46.23 mm 21.92 mm 660.4 mm 0.5686 cm ²	300.0 gr. 1.820 in. 0.863 in. 26.0 in. 0.08813 in. ²
Propellant type	Norma MRP				
Charge Weight Heat of Explosion, Potential Propellant Solid Density Burning Rate Factor Ba Burning Function Limit Z1	5.184 gm 4020 J/gm 1.61 gm/cm ³ 0.369 1/s 0.552	80.0 gr. 260.5 J/gr. 407.15 gr./in. ³	Load Density Energy Density of Charge Used Ratio of Specific Heats cp/cv Weighting Factor Prog/ Degressivity Factor a0	0.889 gm/cm ³ 3572 J/cm ³ 1.2285 0.55 1.737	224.8 gr./in. ³ 58535 J/in. ³
Factor b	2.091		Bulk Density	0.960 gm/cm ³	242.8 gr./in. ³
Calculated and Estimated Da	ıta:				
Bullet Shank Seating Depth Useable Case Capacity Loading Ratio("Density") / Filling	15.06 mm 5.834 cm ³ 92.6 %	0.593 in. 0.356 in. ³	Capacity Displaced by Seated Bullet Bullet Travel at Muzzle Exit Charge Fraction Burnt at Shot Start	1.178 cm ³ 613.13 mm 1.37 %	0.0719 in. ³ 24.14 in.
Predicted Data:					
Maximum Chamber Pressure	4098 bar	59437 psi.	Bullet Travel at Pmax	65.6 mm	2.58 in.
at Muzzle Exit: Bullet Velocity Bullet Energy Propellant Burnt	800.3 m/s 6226 Joule 100.0 %	2626 fps. 4592 ft.lbs.	Pressure at Muzzle Bullet Barrel Time Ballistic Efficiency	729 bar 1.436 ms 29.9 %	10567 psi.
Additional Data:					
Powder Lot			Primer Type and Lot		
Bullet Lot Measured Muzzle Vel., StdDev.			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 reached before bullet's base passes muzzle.

