

338 LapuaMagnum - Barnes TTSX BT 185gr - Norma MRP 95.2gr

martedì, 3. marzo 2015

20:58

RICARICA 338LM-Barnes TTSXB-33874-185gr-NormaMRP95.2gr-1009ms

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

User Data:		Date:3-mar-2015	Time:20:55:44	File: 338lapuamagnum185grbarnesttsx-bt-normamrpf	
Cartridge / Caliber	.338 Lapua Mag.		Bullet	.338, 185, Barnes 'TTSX' BT 3	
Maximum Average Pressure, allowed	4200 bar	60916 psi. (Piezo CIP)		with boattail	
Groove Caliber	8.59 mm	0.338 in.	Bullet Weight	11.99 gm	185.0 gr.
Case Capacity, overflow	7.012 cm³	108.0 gr. H2O	Bullet Length	34.26 mm	1.349 in.
Case Length	69.19 mm	2.724 in.	Bullet Seating Depth	12.44 mm	0.490 in.
Cartridge O.A. Length	91.0 mm	3.583 in.	Barrel/Tube Length	660.4 mm	26.0 in.
Shot Start / Init Pressure	300.0 bar	4351 psi.	Cross Section Area of Bore	0.5686 cm²	0.08813 in.²
Propellant type		Norma MRP			
Charge Weight	6.169 gm	95.2 gr.	Load Density	0.978 gm/cm³	247.3 gr./in.³
Heat of Explosion, Potential	4020 J/gm	260.5 J/gr.	Energy Density of Charge	3931 J/cm³	64418 J/in.³
Propellant Solid Density	1.61 gm/cm³	407.15 gr./in.³	Used Ratio of Specific Heats cp/cv	1.2285	
Burning Rate Factor Ba	0.369 1/s		Weighting Factor	0.55	
Burning Function Limit Z1	0.552		Prog.-/ Degressivity Factor a0	1.737	
Factor b	2.091		Bulk Density	0.960 gm/cm³	242.8 gr./in.³

Calculated and Estimated Data:

Bullet Shank Seating Depth	9.27 mm	0.365 in.	Capacity Displaced by Seated Bullet	0.703 cm³	0.0429 in.³
Useable Case Capacity	6.309 cm³	0.385 in.³	Bullet Travel at Muzzle Exit	603.65 mm	23.77 in.
Loading Ratio("Density") / Filling	101.9 %	= compressed	Charge Fraction Burnt at Shot Start	1.31 %	

Predicted Data:

Maximum Chamber Pressure	4125 bar	59821 psi.	Bullet Travel at Pmax	69.3 mm	2.73 in.
at Muzzle Exit:					
Bullet Velocity	1008.9 m/s	3310 fps.	Pressure at Muzzle	817 bar	11843 psi.
Bullet Energy	6102 Joule	4501 ft.lbs.	Bullet Barrel Time	1.155 ms	
Propellant Burnt	99.6 %		Ballistic Efficiency	24.6 %	

Additional Data:

Powder Lot		Primer Type and Lot	RWS 5333 LRM 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.

