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jumpToMain Relative burn-off velocity - Download Table Careless or incorrect handloading procedures can result in serious personal injury. Handloading should only be done after thorough and complete instruction. Since individual handloading procedures, operations and safety practices are beyond our control, we disclaim all liability for any damages which may result. Reloading any cartridge requires familiarity with safe, conservative reloading practices. When combined with personal discipline and attention to detail, such practices can help create a margin of safety for both the reloader and the shooter. Never begin loading with the maximum powder charge shown in these reloading data tables, regardless of your experience. Never exceed maximum loads because excessive chamber pressure will result. Discontinue firing at the first sign of excessive pressure or upon noticing a change in the report of the firearm. Lot-to-lot variations, design changes, or specification changes that are beyond our control may affect the components mentioned in this book. To safely use this or any other guide or manual, you must keep yourself well informed on the technical progress of reloading. It is our belief that the information offered will result in safe operation if the proper equipment and components are employed in a reasonable manner. Because Norma Precision AB has no control over the actual components selected, the manner in which the components are assembled, or the condition or quality of firearms used, no responsibility, either expressed or implied is assumed for the use of this guide or for any other Norma product. In no event shall Norma Precision AB be liable for any damages resulting from the use of this book, whether in contract, tort or otherwise, including consequential damages. Powder storage To maintain the product quality for as long as possible, you have to keep the powder in a suitable place under suitable conditions. Where possible, store the powder at a constant temperature, ideally between 12 and 15C, and a relative humidity of 40-50%. If the air is too dry, it will dry out the powder, which will cause the pressure to be higher, thus affecting performance. Also, make sure that you close the powder container properly afterwards. Cartridges should be stored under the same ambient conditions to maintain their quality. Burning rate chart When comparing different burning rate charts, one will notice variations in listed propellant ordering. Still, each such chart tells "the truth". Ranking differences result from the use of different criteria. For example, a certain powder type can act slightly quicker than some other powder type, when used in 308 Winchester loads; however, when these powders are used in 7x64 loads, evident burning rates might reverse. Relative burning rate charts can never provide absolute data because too many factors are involved in how propellants burn within a cartridge chamber. Eurenco Bofors produced the following chart, which we have published in our Norma Reloading Manual. Their ballisticians tested the same powder charge (43.2 grains) using the same bullet (143-grain FMJ) loaded in the 308 Winchester they used IMR 4350 performance as a reference. This chart may not be any more accurate than any other but, compared to most, it does give significantly more information about how the relative burning rates were derived and it does relate to at least one real-world situation. Any such data chart should be used ONLY as an INFORMATION GUIDE. Always refer to published data when reloading. Page 2 Gunpowder Charge Weight Velocity m/s Velocity fps Norma URPMax 56.7Min 54.097794832963110 Norma 203-BMax 52.8Min 50.097091631823005 Norma 204Max 56.9Min 54.094990131142956 Gunpowder Charge Weight Velocity m/s Velocity fps Norma URPMax 54.4Min 51.592488730322910 Norma 203-BMax 50.0Min 47.090384329632766 Norma 204Max 54.9Min 52.089684629402776 Gunpowder Charge Weight Velocity m/s Velocity fps Norma 203-BMax 49.3Min 47.087983728842746 Norma 204Max 53.5Min 51.086582628382710 Norma MRPMax 57.6Min 55.085379727992615 Norma URPMax 53.0Min 50.089284429272769 Gunpowder Charge Weight Velocity m/s Velocity fps Norma 204Max 53.4Min 51.085781928122687 Norma MRPMax 56.0Min 53.085578128052562 Gunpowder Charge Weight Velocity m/s Velocity fps Norma 204Max 52.8Min 50.085077727892549 Norma MRPMax 56.0Min 53.085478428022572 Norma URPMax 51.5Min 49.086481728352681 Gunpowder Charge Weight Velocity m/s Velocity fps Norma URPMax 51.0Min 48.584781227792664 Norma 204Max 51.8Min 49.083179027262592 Norma MRPMax 55.8Min 53.084778927792589 Gunpowder Charge Weight Velocity m/s Velocity fps Norma URPMax 50.6Min 48.184480227692631 Norma 204Max 52.5Min 49.884379827662618 Norma MRPMax 53.2Min 50.582477727032549 Gunpowder Charge Weight Velocity m/s Velocity fps Norma 203-BMax 47.1Min 44.883279127302595 Norma URPMax 51.1Min 48.685180827922651 Norma 204Max 52.9Min 50.385881128152661 Norma MRPMax 55.6Min 52.884580327722635 Gunpowder Charge Weight Velocity m/s Velocity fps Norma 204Max 51.8Min 49.081178026612559 Norma MRPMax 57.5Min 55.084182427592704 Norma URPMax 50.0Min 47.582778627132579 Gunpowder Charge Weight Velocity m/s Velocity fps Norma URPMax 49.8Min 47.081576726742517 Norma 204Max 51.5Min 49.080275926312490 Norma MRPMax 55.8Min 53.081077226572533 home Powder Smokeless Powder Black Powder Explosia Swiss Back Powder No. 1No. 1, 500 gNo. 2No. 2, 500 gNo. 3No. 3, 500 gNo. 4No. 5 Fuse Powder Wano Black Powder Pow-Ex Fg Fg Fg Fg Fg Cannon Powder Typ 1 Cannon Powder Typ 2 Cannon Powder Typ 3 Safety Tubes Zloty Stok Black Powder Substitute Accessories Reloading Data Explosives Blasting Equipment Service Company The table shows the relative burn rate of all propellants in the database. There is no common industry standard for sorting such a table. In the published materials of different powder manufacturers or distributors, the powder ranking mostly differs depending on the manufacturer's preference. The most commonly used sorting method is progressive or burn rate. Important Notice: In the table below, the powders are ranked based on a combined metric for burn rate and brilliance. It only serves as a rough overview between the different manufacturers. There is no telling how lively a powder actually is in the! More diagrams from manufacturers and distributors can be found at the bottom of the page. Accurate Powders ADI Alliant Powder Hodgdon IMRLovex Maxam Norma Ramshot Reload Swiss Rottweil Shooters World Somchem VECTAN Vhtavuori Winchester Nitro 100D013Sparta 100N310Solo 1000S015CSB 5RED DOTAS 30R1P805TiteGroup ASS011CSB 4D032Clean Shot GREEN DOTAS 50NBULLSEYECBS 3A1N320P801HP38ZlpMS200BA 9RS 12No.2BA9 1/2Solo 1250AP 70N Universal S030Ultimate PistolCSB 1N32C Tin StarCSB 2MP200A0AS 25 BPTrailBossN330P804S121UNIQUES020N340P803SilhouetteJ706RS 20HERCOS035No.5D036Auto Pistol231POWER PISTOLTrue BlueLongshotBA7 1/2N350HS-63N37AP 90AP 100WAPS221RS 245403N38BLUE DOTP806N105No.7D037.1Major PistolTCMR123No.9D037.2Heavy Pistol2400S040Enforcer5744D060Buffalo RifleN110R910AR 22054100BA6 1/2LilGunH110RS 30S265S0534227No.11 FSD063BlackoutH4227N125RS 36AR 2207N12016804198H4198Reloder-7Reloder-10x200N130S335CFE BLK2015BM2AR 2210AR 2219H322BenchmarkN133SP 10AR-CompR901RS 40AR 2206S060Reloder-12H335303124952028208 XBR Tactical RifleN530201H4895AR 2206H2200TerminatorR902N135D073.4AR PlusN5405062PrecisionAR 2208VARGET406448952460D073.54166 Enduron4064S321SP 92230Reloder-15203BN140S3552520D073.6Match RifleWild BoarTAC296BL-C24320203 oldRS 524451 EnduronN150R903H3805P 75341SP 115365S065Long RifleR9074007 SSCRS 50CFE223LVRURPS0705W4350Reloder-17Reloder-16RS 60N55027004350Hybrid 100VH4350H414HunterRS 625385N55204R9044955 EnduronReloder-23Reloder-19AR 2209RS 70N160MRPReloder-26Reloder-223100S0715361H4831748N560AR 2213Reloder-25R905N565N1657828MRP 2MAGPRO7977 EnduronRS 766.5 StaBallMagnumSP 12217AR 2225RetumboAP 22148133 EnduronAR 2217H1000N570RS 80N170H870Reloder-33760AR 2218Reloder-50SP 13D100BGLRT24N4150BMSupreme 780US 869870012.07.200020N29XRNS68 Other Sources for Burn Rate CahrtSLHS: Bullets: Author: Date: Mar 15 2012 Heres Loaddata.coms latest powder burn rate chart. The chart is designed from the fastest burning powder to the slowest burning powder. This chart gives an approximation of where the powders fit within their relative burn rates. This chart is for informational purposes only and is not designed to take place of data in conventional reloading manuals or this site. Fast To Slow Powder Burn Rate Chart 197 powder burn rates are on this chart. You might be surprised as you compare your favorite powder to others you have never seen or used before or have been curious about. The data represented is for your info only and should not be substituted for traditional reloading data manuals across the site. We cover thousands of points of load data from nosler load data to hornady reloading data. If you can't find it, it probably doesn't exist. We also continue to expand our load data manuals, present new powder burn rate charts and keep you up to date as much as possible on all relevant load data topics. Enjoy! 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