



Permissible Ammonium Nitrate Nitroglycerin Dynamite



Product Description

RED HA is an ammonium nitrate dynamite formulated to meet the requirements of the Mine Safety and Health Administration for use in underground coal mines and is intended for use in shooting coal “off-the-solid” and coal seams which contain rock binders. Density, detonating velocity and energy provide consistent results in coal seams that are difficult to shoot.

Application Recommendations

- This product is permissible only if used in accordance with the Code of Federal Regulations, 30 CFR part 75. These regulations are very detailed and all users should become fully familiar with their content.
- Minimum detonator for permissible application is a bronze shell No. 8 strength.
- Dynamites are susceptible to sympathetic detonation when applied in very wet conditions where boreholes are closely spaced and/or where geological conditions promote this effect. Consult your Dyno Nobel representative for recommendations where these conditions exist.

Properties

MSDS #1019

| | |
|---|------------------|
| Density (g/cc) Avg | 1.21 |
| Energy ^a (cal/g) | 844 |
| (cal/cc) | 1,021 |
| Relative Weight Strength ^a | 0.96 |
| Relative Bulk Strength ^{a,b} | 1.41 |
| Velocity ^c (m/s) | 2,500 |
| (ft/s) | 8,200 |
| Detonation Pressure ^c (Kbars) | 19 |
| Gas Volume ^a (moles/kg) | 37 |
| Water Resistance | Fair |
| Fume Class | MSHA Permissible |

^a All Dyno Nobel Inc. energy and gas volume values are calculated using PRODET™ the computer code developed by Dyno Nobel Inc. for its exclusive use. Other computer codes may give different values.

^b ANFO = 1.00 @ 0.82 g/cc

^c Unconfined @ 32 mm (1¼ in) diameter

Hazardous Shipping Description

Explosive, Blasting, Type A, 1.1D, UN 0081 II





Transportation, Storage and Handling

- RED HA must be transported, stored, handled and used in conformity with all applicable federal, state, provincial and local laws and regulations.
- For maximum shelf-life, dynamite must be stored in cool, dry and well-ventilated magazines. Dynamite inventory should always be rotated by using the oldest materials first. For recommended good practices in transporting, storing, handling and using this product, see the booklet “Prevention of Accidents in the Use of Explosive Materials” packed inside each case and the Safety Library Publications of the Institute of Makers of Explosives.

| Diameter x Length | | Qty / Case | Case Type | Nominal Case Weight | |
|-------------------|-----------|------------|-----------|---------------------|-----|
| mm | in | | | kg | lbs |
| 25 x 200 | 1 x 8 | 140 | DA | 15 | 32 |
| 29 x 200 | 1 1/8 x 8 | 100 | DA | ** | ** |
| 32 x 200 | 1 1/4 x 8 | 88 | DA | 20 | 45 |
| 40 X 200 | 1 1/2 x 8 | 60 | DA | 16 | 36 |
| 45 X 200 | 1 3/4 x 8 | 40 | DA | ** | ** |
| 50 X 200 | 2 x 8 | 34 | DA | ** | ** |

**Available upon request.

- RED HA is available in a wide variety of sizes. Custom sizes are subject to surcharge and may require longer than usual lead times.
- Note: All weights are approximate.
- Check with your Dyno Nobel representative should you have any questions.

Case Dimensions

DA 45 x 34 x 17 cm 17³/₄ x 13³/₈ x 6³/₈ in

Product Disclaimer Dyno Nobel Inc. and its subsidiaries disclaim any warranties with respect to this product, the safety or suitability thereof, or the results to be obtained, whether express or implied, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR OTHER WARRANTY. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries (including death), losses, or damages to persons or property arising from the use of this product. Under no circumstances shall Dyno Nobel Inc. or any of its subsidiaries be liable for special, consequential or incidental damages or for anticipated loss of profits.