

Nitropril™ Prilled Ammonium Nitrate

Description

Nitropril™ is a low density porous prilled grade of ammonium nitrate specifically formulated for use as an oxidiser in blasting agents.

Key Benefits

- Nitropril™ is a physically robust porous prill with a built in resistance to breakdown due to temperature cycling and abrasion.
- Its consistent bulk density and free flowing, low dust characteristics ensure reproducible collar heights and accurate operation of explosives mixing equipment.
- Developed and manufactured by Orica specifically for Australian conditions Nitropril™ has superior storage and handling characteristics when compared to other prilled forms of ammonium nitrate available internationally.

Properties

Total nitrogen by mass	34.0% minimum
Ammonium nitrate content	99.0% minimum
Free flow bulk density	0.72 to 0.78g/cm ³
Solution pH (10% solution at 20°C)	4.6 – 5.2
Oil absorption	6.0% minimum
Moisture (w/w)	0.2% maximum
Mean prill diameter	1.6mm – 2.4mm
Total organic carbon (w/w)	Not greater than 0.2%

Storage and Handling

Product Classification

Authorised Name:	Nitropril™
Correct Shipping Name:	Ammonium Nitrate
UN No.	1942
Classification Code:	5.1 (Oxidising Agent)
Packaging Group:	III

All regulations pertaining to the handling and use of such explosives apply.

Storage and Transport

Nitropril™ should be stored in a cool, well ventilated area, away from sources of heat and incompatible materials. It should be kept dry. Bulk Nitropril™ should be stored in custom designed facilities. Ammonium nitrate stores are required to meet certain minimum standards and in most cases to be formally licensed. Reference should be made to the appropriate country standard for the storage and handling of oxidising agents. In Australia this is AS4326 the Australian standard for the storage and handling of oxidising agents.

Ammonium nitrate is required to be transported in strict accordance with the UN publication "Recommendation on the Transport of Dangerous Goods - Model Regulations" and the "International Maritime Dangerous Goods Code". In Australia it must also be in accordance with the current (seventh) edition of the Australian Code for the Transport of Dangerous Goods by Road and Rail. Further information is available on the Safety Data Sheet for Nitropril™.

Disposal

Disposal of strong oxidising materials can be hazardous. Methods for safe disposal of oxidising materials may vary depending on the user's situation. Please contact a local Orica representative for information on safe practices.



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Safety

Nitropril™ is a strong oxidizing agent, which will react with materials such as strong reducing agents and metal powders. Whilst not combustible on its own, Nitropril™ supports combustion and increases the intensity of a fire. Nitropril™ is not readily detonated in unconfined conditions, but may react with materials such as strong reducing agents and metal powders with high temperatures. When heated to decomposition (unconfined), Nitropril™ produces oxides of nitrogen and white ammonium nitrate mist. Brown fumes indicate the presence of toxic oxides of nitrogen.

Trademarks

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Disclaimer

Explosives based on Ammonium Nitrate such as Nitropril™ may react with sulphide materials in the ground and create potentially hazardous situations. Orica accepts no responsibility for any loss or liability arising from use of the product in ground containing sulphide or other reactive material. All information contained in this data sheet is accurate and up-to-date as at the issue date specified below. Since Orica cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Orica will not be responsible for damages of any nature resulting from the use of or reliance upon the information in this data sheet. No express or implied warranties are given, other than those implied mandatory by law.

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