

Technical Data Sheet

Anopril® Prilled Ammonium Nitrate

Description

Anopril® is a low density porous prilled grade of ammonium nitrate (AN) specifically formulated for use as an oxidiser in blasting agents. *Anopril®* is manufactured using *Sapphyr®* additive and manufacturing technology developed by Orica. *Sapphyr®* generates 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.

Performance

Total Nitrogen by mass	34% minimum
AN content	99% minimum
Solid coating agents	0.04 – 0.15 organic
Free flow bulk density	0.72 – 0.80 g/cc
Solution pH (10% solution at 20oC)	4.5 – 6.0
Oil absorption	5.7 minimum
Moisture (w/w)	0.25% maximum
Mean prill diameter	Size distribution 0.83 – 3.3 mm >95%
Total organic carbon (w/w)	Not greater than 0.2%

Safety Features

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

Storage

Anopril® should be stored in a cool, well ventilated area, away from sources of heat or ignition. It should be kept dry. Bulk *Anopril®* 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. For Indonesian customers, reference should be made to the Regulation of the Head of Indonesian Police No. 02 of 2008.

Transport

Ammonium Nitrate is required to be transported in strict accordance with the dangerous goods transportation standards. For Indonesian customers, reference should be made to the Regulation of the Head of Indonesian Police No. 02 of 2008. Further information is available on the Material Safety Data Sheet for *Anopril®*.

Classification

Authorised Name: *Anopril®*
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 oxidising agents apply.

Trademarks

Anopril® and *Sapphyr®* are registered trademarks of Orica Explosives Technology Pty Ltd. 1 Nicholson Street, East Melbourne, Victoria, Australia.

Disclaimer

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