

# CONTOUR 30, 50, 70



## TECHNICAL DATA SHEET – PACKAGED EXPLOSIVES

### CONTOUR 30, 50, 70

CONTOUR is a low density explosive formulation designed for use in underground blasting. It has been developed to overcome segregation problems during loose pouring and pneumatic loading of the explosive material.

CONTOUR is comprised of POLAR emulsion matrix, ammonium nitrate, polystyrene beads and fuel oil components. The POLAR emulsion component binds the ANFO and polystyrene together making the product ideal for use in inclined holes where segregation could occur. The POLAR emulsion component also increases the water resistance of the product over ANFO blends while the sticky nature of the product keeps the explosive in the hole making it ideally suited to perimeter blasting in uphole stopes.

### APPLICATION

The CONTOUR product range provides a variety of explosive strengths for applications that require explosives of lower strengths such as perimeter blasting. The different product blends allow the explosive properties to be matched with the particular geology of the site.

The lower energy CONTOUR explosive products have excellent charge distribution meaning that vibration is minimised and wall control is maintained, while still delivering the required fragmentation.

### PACKAGING

CONTOUR products are available in packaged form in coloured plastic bags.

8 kg	colour
12.5 kg	colour
18 kg	colour

The range of CONTOUR products are delivered in pallet loads of 50 bags.

30	400 kg / pallet
50	625 kg / pallet
70	900 kg / pallet

### PHYSICAL PROPERTIES

CONTOUR PRODUCT	30	50	70
Poured Density (g/cm <sup>3</sup> )	0.30	0.55	0.75
Pneumatic Loaded Density (g/cm <sup>3</sup> )	0.54	0.67	0.87
Energy (MJ/kg)	3.28	3.51	3.63
Minimum Diameter (mm)	50	50	40
Minimum Diameter (mm) - pneumatic loading	40	-	32
Explosive Class 1.1D	UN Number: UN 0082		

### RECOMMENDATIONS

**Use** - CONTOUR is designed for use in upholes as well as horizontal or slightly inclined holes in drives. The binding characteristics of the POLAR emulsion also makes it suitable for use in steeply inclined holes.

**Priming Requirements** - CONTOUR is NOT detonator sensitive and must be primed with a suitable diameter cast booster or MAXIDRIVE® cartridge. If in doubt regarding specific priming requirements, contact a Nitro Sibir Australia representative.

**Water Resistance** - CONTOUR has low water resistance.

**Ground Temperature** - Ground temperature should be in the range of 0-50°C. For applications in ground at higher temperatures, consult a Nitro Sibir Australia representative and the relevant regulatory authority.

**Reactive Ground** - CONTOUR is not designed for use in reactive (pyritic) ground conditions. For applications in reactive ground conditions consult a Nitro Sibir Australia representative.

**Shelf Life** - CONTOUR products should be used within three (3) months where possible. The maximum storage life is six (6) months under ambient temperature and low humidity conditions. Storage under high temperature and high humidity conditions will accelerate product breakdown and should be avoided. Signs of product degradation are hardening or caking which can lead to difficulty in loading and may lead to poor blasting performance as a result.

**Sleep Time** - CONTOUR may be slept for up to three (3) months under normal conditions in dry, stemmed blast holes. Sleep time will be limited to the recommended sleep time of the initiation system in use. Sleep time will be dramatically reduced by the presence of water. Additional sleep time information can be provided by a Nitro Sibir Australia representative.

### SAFETY

**First Aid** - Please refer to the Nitro Sibir Australia Safety Data Sheet for CONTOUR 30, 50, 70, Ref P03.

**Safety** - All explosives are classified as dangerous goods and must be handled and stored with care. Misuse may result in personal injury and/or damage to property.

**Transportation and Storage** - All explosives must be handled, transported and stored in accordance with all applicable state and federal statutory regulations.



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