

EMULEX® 180

PRODUCT INFORMATION BROCHURE

EMULEX® 180 is a detonator sensitive packaged emulsion explosive, designed for column loading or priming applications in underground blasting. The high energy explosive is grey in colour, packaged in plastic film. An addition of Aluminum in the explosive enhances its overall detonation strength. Also, stronger micro-balloon is incorporated to ensure it is resistant to dead pressing especially in close borehole application. It works remarkably well for wet and dry blast holes in underground blasting. It can also apply to subsea blasting. Please contact our Technical Personnel for more information.

ADVANTAGES

- High energy allows an extended drilling pattern for more economical blasting cost.
- Develops excellent gas volume for heave displacement.
- Very low amount of toxic fumes.
- Good borehole coupling characteristics when the diameter of product applied is matched to the dimensions of the blast hole.
- Excellent water resistance.
- Good handling due to stiff cartridges.

PROPERTIES

Properties	Value
Nominal Density [g/cm ³]	1.2
Oxygen balance [%] ⁽¹⁾	-2.1
Gas Volume [L/kg] ⁽¹⁾	850
Heat of explosion [kJ/kg] ⁽¹⁾	3,680
Relative weight strength [ANFO=100]	93
Relative bulk strength [ANFO=0.85 g/cm ³]	131
Velocity of detonation [m/s] ⁽²⁾ (without confinement)	4,500 (diameter 35 mm) 5,500 (diameter 65 mm)

Notes:

(1) Theoretical values based on Austin modeling which assumes ideal detonation. Values calculated with other codes may differ.

(2) The velocity of detonation will depend on application, diameter and confinement.



AUSTIN POWDER

Austin Powder Malaysia Sdn. Bhd.

(Registration No.: 197601000224) (26191-A)
(Formerly known as Tenaga Kimia Sdn Bhd)

No. 8, Jalan SS 22/21, Damansara Jaya, 47400 Petaling Jaya, Selangor Darul Ehsan. Tel : 603 - 7729 7464 | Fax : 603 - 7729 8383

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STANDARD PACKAGING

Diameter (mm)	Length (mm)	Weight (kg)	Quantity Per Case (pcs)	Net Weight Per Case (kg)
25	200	0.120	208	25
25	400	0.241	104	25
32	200	0.193	130	25
32	400	0.380	66	25
35	400	0.455	55	25
50	200	0.500	50	25
50	400	0.965	26	25
55	170	0.500	50	25
55	200	0.521	48	25
55	350	1.000	25	25
55	400	1.250	20	25
65	400	1.565	16	25
80	400	2.500	10	25
90	400	3.130	8	25

STORAGE

- Lower temperature limit 0°C (max. 3 months of storage down to -10°C)
- Upper temperature limit +30 °C

USE

- Lower temperature limit -15°C
- Upper temperature limit +60°C
- Minimum detonator 0.7 g PETN or detonator of comparable strength
- Maximum static overpressure 0.3 MPa (3 bar) for 24 hours
- For underground use
- Not for use in hazardous environments where flammable gases or dust may exist
- Austin accepts no responsibility for any loss or liability arising from use of the product in ground containing pyritic or other reactive material

SHELF LIFE

1 year from the date of manufacture

DISPOSAL

In accordance with local and national legal requirements. In doubt contact your supplier or the manufacturer.

TRANSPORTATION DATA

Shipping Name: EXPLOSIVE, TYPE E

UN Class and Division: 1.1D

UN Number: 0241

Contact your local Austin Powder representative for further information.

Disclaimer of Warranties and Limitations of Liabilities

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06/2020