

EMULEX

Cartridged emulsion formulated for charging positive boreholes. Due to its excellent consistence and thanks to its high breaking power, it is appropriate to be used as primer or first column charge in small and intermediate boreholes in underground and pit mining, civil works and quarries. Thanks to its excellent resistance to water it may be used in wet and flooded boreholes, offering good fragmenting results. Given the low level of gases released by this emulsion, it reduces downtime to re-enter the operations.

Recommendations for use:

- Suitable for very deep boreholes
- Do not open or roll the cartridges.
- For safety handling and storage considerations, see Exsa safety sheet.

Technical Characteristics

| Technical specifications | Units | Emulex 45 | Emulex 65 | Emulex 80 |
|--------------------------|-------------------|-------------|-------------|-------------|
| Density | g/cm ³ | 1.00 ± 3% | 1.12 ± 3% | 1.14 ± 3% |
| Detonation velocity * | m/s | 4,100 ± 200 | 5,000 ± 200 | 5,000 ± 200 |
| Detonation pressure ** | kbar | 45 | 84 | 83 |
| Energy** | KJ/kg | 1,850 | 4,060 | 4,180 |
| RWS ** | % | 50 | 110 | 113 |
| RBS ** | % | 61 | 150 | 157 |
| Water resistance | | Excellent | Excellent | Excellent |
| Fume category | | 1 st | 1 st | 1 st |

* Unconfined, in 30 mm-diameter tin tube.

** Calculated with TERMODET simulation program.

Presentation and Packaging

Explosive mass cartridged in plastic film, arranged in plastic bags, packed in corrugated cardboard boxes.

| | |
|----------------|--------------------------|
| Net Weight | 25 kg |
| Gross Weight | 26.3 kg |
| Box Dimensions | Ext. 35 x 45 x 28 cm |
| Material | Corrugated cardboard box |

| Product | inch | | UN/Box | Mass g/UN |
|-----------|-------|----|--------|-----------|
| EMULEX 45 | 1 1/8 | 12 | 128 | 195 |
| EMULEX 45 | 1 | 7 | 276 | 91 |
| EMULEX 65 | 1 1/2 | 12 | 64 | 391 |
| EMULEX 65 | 1 | 8 | 228 | 110 |
| EMULEX 80 | 1 1/2 | 12 | 62 | 403 |
| EMULEX 80 | 1 | 8 | 222 | 113 |

Variations in the number and weight of the cartridges in the box may occur to keep the standard of 25 kg/box.

Ask Exsa for other cartridge formats.

DISCLAIMER OF LIABILITY

These explosives have been inspected and found to be in good condition prior to packaging and/or delivery thereof. These explosives must be stored in a cool, dry and well-ventilated place, and be handled and transported in accordance with applicable laws.

Accordingly, as from being delivered to the purchasers, the manufacturer shall not be liable for the safety of these explosives or for obtaining any results sought, whether express or implied. As from the delivery of these explosives, the purchasers thereof shall be liable for any and all risks and liability, regardless



Storage and Warranty

Kept in its original packaging and stored under normal temperature and moisture conditions, in accordance with applicable laws and provisions, the product is warranted for 6 months from the manufacturing date.

Transportation

CLASS: 1
DIVISION: 1.1 D
NºONU: 0241



of their nature, for any accidents, losses, property or personal damages (including death), whether direct, indirect, special and/or consequential or of any other nature arising from the use of these explosives.