

INNOVEX™ 100 (HEF 100)

High energy bulk emulsion explosive

PRODUCT DESCRIPTION

INNOVEX™ 100 base emulsion is a class 5.1 oxidizing agent with UN classification number 3375. When sensitised with the gassing agent, INNOVEX™ 100 becomes a booster-sensitive emulsion designed for opencast mines. INNOVEX™ 100 is a low viscosity black emulsion specially formulated using recycled oil / alternative fuel. It is sensitised to a cup density of 0.9 – 1.2 g/cm³ by using a suitable sensitising agent. INNOVEX™ RG is the BME product specifically formulated for reactive ground conditions.

Product	Water resistance	Nominal bulk density (g/cm ³)	Relative weight strength	Relative bulk strength
INNOVEX™ 100	Excellent	1.46 – 1.50	84	126

Calculated at a density of 1.2 g/cm³ and a pressure of 100 mPa. Relative to ANFO at a density of 0.8 g/cm³.

PRODUCT FEATURES

APPLICATION

INNOVEX™ 100 is designed for blasting in opencast mines.

FEATURES

- Minimum initiation – 150 g booster-sensitive when sensitised for holes having a diameter of 127 mm and less. Holes with a diameter larger than 127 mm and a depth greater than 6 m require a 400 g booster
- VOD – 3500 – 5500 m/s, dependent on hole and rock characteristics
- Critical diameter – 64 mm
- Sensitisation – The emulsion can be sensitised to densities between 0.95 – 1.25 g/cm³
- Excellent water resistance

RECOMMENDATIONS

- Shelf life – 3-6 months when stored under recommended storage conditions
- Sleep life – 21 days in the hole
- First Aid – refer to Material Data Sheet for first aid information
- Safety – all explosives are classified as dangerous goods and can cause damage to property, personal harm or death if not used correctly
- Transportation and storage – all explosives must be transported and stored in accordance with relevant regulations

PACKAGING

- INNOVEX™ 100 is transported and stored as bulk product class 5.1, UN number 3375, oxidizing material

PRODUCT RISK PROFILE

- Classified as hazardous substance, Class 5.1: oxidizing substances
- Non-detonable in the non-sensitised, unconfined bulk form
- Will not readily burn on its own, but if subjected to extreme external heat for a period of time, water may be driven off resulting in an explosion risk
- DO NOT ATTEMPT TO FIGHT AN EXPLOSIVES FIRE

UN CLASSIFICATION (TRANSPORT)

- Base Emulsion: Class 5.1, UN No. 3375, OXIDIZING MATERIAL
- Sensitising Agent: Class 5.1, UN No. 3099, OXIDIZING LIQUID, TOXIC, N.O.S.

