

Powergel Magnum 365

Cap sensitive emulsion explosive

Small diameter emulsion explosives for use in civil engineering, tunnelling and mining (non-permitted). Suitable for use in all rock conditions, the Powergel series of products are designed to offer the user maximum effective performance whilst retaining the intrinsic safety benefits of previous slurry and emulsion explosives.

High Power

The Powergel series of products offers enhanced power over previous formulations. This is not just a function of their higher strength but also of the manner in which the energy is delivered resulting in superior heave performance. This again is a fundamental prerequisite of effective rock breakage.

Effective Performance

The new formulation Powergel Magnum 365 emulsion explosives are based upon Orica's patented emulsion technology. The use of this unique advanced technology means that the non explosive ingredients are so intimately mixed as to produce exceptional shock and heave characteristics and subsequently very effective rock breakage. In addition after detonation, fume properties are excellent.

High Safety Features

Despite its high performance capabilities Powergel Magnum 365 retains the high safety characteristics of its predecessors. It is very water resistant and also resistant to accidental initiations by both friction and impact and in addition will decay through time to non hazardous materials.

Initiation

All Powergel Magnum 365 cartridge sizes may be initiated using a commercial No.S star detonator. Cordtex detonating cord may be used providing there is intimate contact between the detonating cord and the cartridges.

Storage

Product can be stored under moderate climatic conditions for up to 12 months before requiring retesting.

Thermodynamic and Technical. Properties

The following properties and characteristics apart from Ballistic Mortar which is an actual value are ideal values derived from Orica Explosives IDEX program. It should be remembered that these are calculated from thermodynamic data and actual values will vary from these according to prevailing conditions in use.

Packaging

All Powergel Magnum products are supplied in flexible sleeve durable packaging.

UN NO.

Un Classification 1.1 D, UN No 0241 Explosive, Blasting. Type E.

Product Range

The following sizes of Powergel Magnum 365 are available for order, Other sizes may be available for special application by arrangement.

Standard Dimensions	Cartridge Weight
27 x 225mm	150gr
30 x 225mm	188gr
32 x 200mm	190gr
34 x 225mm	240gr
34 x 400 mm	386gr
40 x 200mm	296gr
40 x 225mm	330gr
50 x 225mm	500gr
50 x 450mm	1000gr

Ideal Detonation Velocity	6337 m/s
Ideal Detonation Pressure	121400 atm
Ideal Detonation Temperature	2943°K
Density	1.20 gr/cm ³
Water Resistance	Excellent
Heat of Explosion	4433 KJ/Kg

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