

# Introducing Innovex<sup>™</sup> 300D: The Ultimate Solution for Challenging Mining Environments

### Innovex<sup>™</sup> 300D: Engineered for the Toughest Conditions

#### BME's Solution: Innovex<sup>™</sup> 300D

BME has developed high-strength Innovex<sup>™</sup> 300D, an industryleading mechanized bulk explosives solution designed specifically for extremely challenging mining environments.

### Innovex<sup>™</sup> 300D: Advancing Safety, Efficiency, and Environmental Protection

Innovex<sup>™</sup> 300D represents a significant advancement in managing challenging mining operational environments. With its cutting-edge features and additional benefits, it ensures safety, efficiency, and environmental protection, making it the ultimate solution for the toughest mining conditions.

## Dynamic Water: A Common Challenge in Surface Mines

Dynamic water is a prevalent issue in surface mines, leading to various operational and environmental challenges, including:

- Misfires and incomplete detonation
- Generation of NOx fumes
- Nitrates leaching into the environment

### Additional Benefits of Innovex™ 300D

#### **Reduced Nitrates Leaching**

 ${\sf Innovex}^{{\sf M}}$  300D helps minimize nitrates leaching into the environment.

#### **Protection Against Emulsion Run-off**

The system protects against emulsion run-off in blast holes with dynamic water, preventing environmental contamination.

#### **Resistance to Free Ammonia and Acidic Conditions**

The mechanized emulsion system offers resistance against free ammonia, commonly found in mine waters and tailing dams, and against acidic sulphate soil conditions, such as rocks containing pyrite that can produce sulphuric acid.

#### Key Features of Innovex<sup>™</sup> 300D:

- Enhanced Resistance to Dynamic Water
   Innovex<sup>™</sup> 300D offers increased resistance to dynamic water, reducing the likelihood of misfires and incomplete explosions.
- Adjustable Rheology for Fractured Geology
   The product features an adjustable rheology, making it suitable for
   highly friable and fractured geological conditions.
- 3. Superior Strength for Optimal Blast Results Formulated for superior strength, Innovex<sup>™</sup> 300D ensures optimal blast outcomes.
- 4. Advanced Emulsion Matrix

The system comprises a high-strength bulk emulsion matrix specifically formulated with rheology modifiers, surface-active agents, and a unique blend of diluent oils and emulsifiers. This formulation allows for adjustable and instantaneous bulk emulsion rheology suited for tough blasting conditions.

#### 5. In-line Monitoring and Instant Viscosity Modifications

The system includes a mobile manufacturing unit equipped with an in-line monitoring device for real-time viscosity adjustments and monitoring.

