

## Black Powder, fine and coarse



### Description

Black Powder is a mechanical mixture of potassium nitrate, sulphur and charcoal. The powder is supplied in granulated form, polished with graphite and screened to the defined grain size.

### Application

In rock blasting today, Black Powder is used mainly for cautious blasting in the production and splitting of block stone, primarily to eliminate or reduce the formation of cracks. Black Powder is sensitive to water and can therefore be used in dry drill holes only.

### Recommendations for Use

- Not for sites with danger of fire damp or coal dust explosion.
- The Black Powder may be used as bulk and cartridged.
- The Black Powder should not be charged pneumatically.
- Suitable measures must be taken to ensure that electrostatic charges, that may occur, are derived.
- Black Powder in water filled holes only allowed to be used in hoses.
- In underground use appropriate measures are required to avoid health problems caused by toxic components of the blasting fumes.
- The Black Powder has to be stored tightly closed, cool and dry.

### Priming and Initiation

A detonator strength Ref. Det. 3 (EN 13763-15) can reliably initiate Black Powder.

### Ground Temperature

Black Powder is available for use in ground temperatures -20 °C to a maximum of +50 °C. If your application requires you to operate outside this temperature range please contact your DEXPLOC representative.

### Technical Properties

Product	Black Powder	
	fine	coarse
Density, Coarse (g/cm <sup>3</sup> )	1.4 – 1.8	
Density, when filled in boreholes (g/cm <sup>3</sup> )	0.8 – 1.1	
Granulate size (mm)	0.3 – 2.0	1.6 – 7.1
Hole Type	Dry	
Heat energy, theoretical (MJ/kg)	approx. 2.8	
Typical VOD (m/s)	300 - 600	
Gas volume (l/kg)	280	
Impact sensitivity (J)	<7.5	
Friction sensitivity (N)	>360	

### Packaging

Black Powder is packaged in bags:

Net weight bag (kg)	Bags per box (Pieces)	Net weight box (kg)
2.5	10	25.0

### Storage and Handling

#### Product Classification

Authorised Name: Black Powder, fine:  
*Sprengpulver fein / Sprengkrutt*

Black Powder, coarse:  
*Sprengpulver grob / Minerkrutt*

Proper Shipping Name: Black Powder

UN No.: 0027

Classification: 1.1D

EC Type Certificate: 0589.EXP.0086/98

All regulations pertaining to the handling and use of such explosives apply.

#### Storage

Store Black Powder in a suitably licensed magazine for Class 1.1D explosives.

Black Powder is best stored at temperatures between 0 °C and +30 °C.

Black Powder has a storage life of up to 10 years in an approved magazine.

#### Disposal

Disposal of explosives materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a DEXPLOC representative for information on safe practices.

## **Safety**

As with all explosives, Black Powder should be handled and stored with care and must be kept clear of flame, spark, shock, impact and excessive heat. Protect from fire and solar radiation.

## **Training**

This Technical Data Sheet is for information only. Black Powder must only be used by personnel who have been properly trained to use this product.

## **Disclaimer**

© 2021 DEXPLOC A/S. All rights reserved. All information contained in this document is provided for informational purposes only and is subject to change without notice. Since DEXPLOC A/S cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, DEXPLOC A/S specifically disclaims all warranties express or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. DEXPLOC A/S specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document.

The word DEXPLOC with associated logo are trademarks of DEXPLOC A/S.