

BLACK MAGIC

COAL SLAG

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PRODUCT

TARGET® Black Magic is an abrasive grit prepared by selective screening of coal slag to give a series of clean, sharp abrasives meeting the requirements of the abrasive blast cleaning industry. The product meets the requirements for classification as a Type I Inorganic Material under U.S. Military Specification MIL-A-22262A (SH), dated 6 Feb 87.

USES AND ADVANTAGES

- Black Magic is suitable for most grit blasting operations on metal surfaces. The angular and sub-angular shapes of individual particles of Black Magic make this product ideal for the efficient removal of mill scale, rust or existing coatings from steel and other metals in preparation for painting.
- The low crystalline silica content (0.2 % free silica) of Black Magic is a significant factor in situations where the use of silica sand blasting abrasives is not acceptable for environmental or safety reasons.

PHYSICAL PROPERTIES

Colour	Black
Grain Shape	Angular
Hardness, Moh	6.5 - 7
Bulk Density	80 - 95 lb/ft ³ (1281 - 1522 kg/m ³)
Specific Gravity	2.85
Moisture Content	<0.1% weight

PACKAGING

Black Magic is available in 50 lb (22.7 kg) paper bags or in bulk bags of approximately 3600 lb (1633 kg) each. Bulk deliveries by pneumatic tank trucks are also available.

CAUTION

Although Black Magic is suitable for blasting of concrete or wood surfaces, a test section should be done before proceeding with a project to ensure that the particles of abrasive do not become embedded in the work, causing a darkening of the exposed surfaces. TARGET silica sand is usually more suitable for such applications.

SAFETY

TARGET Black Magic does not contain any ingredients that require classification under WHMIS regulations. Because of the hazardous nature of abrasive blast cleaning operations and the toxicity of the dusts that can be created when removing certain coatings, all appropriate safety precautions must be followed when using Black Magic or any other abrasive. Consult your local Industrial Health & Safety Regulations, NIOSH or other requirements for guidance on the required safety procedures and equipment.

Product performance is affected by many factors, including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Target's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Target's SOLE LIABILITY is to replace product proved defective. In no event shall Target be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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WASTE DISPOSAL

Before use, TARGET Black Magic is not classified as a hazardous waste. However, during use, the product can become contaminated with paints or other materials that would require classification of the waste material as a hazardous or special waste. It is the responsibility of the user to undertake any necessary evaluation, classification and disposal of the material after use. Consult local authorities for information on the disposal requirements and procedures applicable to spent abrasive in your area.

TYPICAL SIEVE ANALYSES

The sieve analyses given in the following tables are typical values. Actual values could change from time to time.

Expressed as cumulative percent passing

Sieve Size		Grade			
ASTM E 11	Metric	8-20	16-40	20-50	40-60
No. 10	2.00 mm	30 – 60	100	100	
No. 16	1.18 mm		63.0	95.5	
No. 20	0.85 mm	0 – 20	25.4	67.1	100
No. 30	0.60 mm		6.8	42.4	97.0
No. 40	0.42 mm		0.4	14.4	55.0
No. 50	0.30 mm		0.1	1.8	4.5
No. 100	0.15 mm		Trace	0.1	0.5
No. 200	0.075 mm			Trace	Trace

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TYPICAL SIEVE ANALYSES con't

Expressed as individual percentages retained

Sieve Size		Grade			
ASTM E 11	Metric	8-20	16-40	20-50	40-60
No. 10	2.00 mm	40 – 70			
No. 16	1.18 mm		37.0	4.5	
No. 20	0.85 mm	10 – 20	37.6	28.4	
No. 30	0.60 mm	0 – 10	18.6	24.7	3.0
No. 40	0.42 mm		6.4	28.0	42.0
No. 50	0.30 mm		0.3	12.6	50.5
No. 100	0.15 mm		0.1	1.7	4.0
Pan	0-20		Trace	0.1	0.5

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TYPICAL TOTAL METALS ANALYSIS

All test results are expressed as total mg/kg (ppm) of dry material.

ELEMENT	BLACK MAGIC 16-40 TOTAL METALS mg/kg (ppm)	CCME 1996 Maximum Limit Commercial / Industrial
Aluminum	12500	
Antimony	<20	40
Arsenic	<0.5	50
Barium	1450	2000
Beryllium	0.8	8
Bismuth	14	
Cadmium	<2.0	20
Calcium	43000	
Chromium	4.2	800
Cr, +6	<0.5	
Cobalt	2.4	300
Copper	12.1	500
Iron	9240	
Lead	<10	1000
Mercury	<0.005	10
Molybdenum	<4.0	40
Nickel	4.0	500
Selenium	<0.1	10
Silver	<2.0	40
Tin	<30	300
Zinc	<1	1500

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