

KLEEN BLAST

COPPER SLAG

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PRODUCT

Kleen Blast is an abrasive grit prepared by selective screening of copper slag to give a series of clean, sharp abrasives meeting the needs of the abrasive blast cleaning industry. The product is approved by the California Air Resources Board for use in dry, unconfined blasting operations.



USES AND ADVANTAGES

- Kleen Blast is suitable for most grit blasting operations on metal surfaces. The angular shapes of individual particles of Kleen Blast 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 hardness and particle shape of Kleen Blast also permit its recycling and reuse in blast cleaning processes.
- The low crystalline silica content (less than 0.1% free silica, no detectable respirable silica) of Kleen Blast 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 - 7
Bulk Density	104 lb/ft ³ (1666 kg/m ³)
Specific Gravity	3.19
Moisture Content	<0.01% weight

PACKAGING

All grades of Kleen Blast are available in 22.7 kg (50 lb) paper bags, bulk bags of approximately 1814 kg (4000 lb), or in pneumatic tanker loads.

CAUTION

- Although Kleen Blast 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 or industrial sand abrasives are usually more suitable for such applications.
- The sharpness of Kleen Blast particles can be detrimental to certain fish species. The use of Kleen Blast in situations where it can enter waterways is therefore not recommended. Other TARGET abrasive products are suitable for use in situations where Kleen Blast might not be appropriate.

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.targetproducts.com/product-warranty
Or send a written request to Target Products Ltd., Five Concourse Parkway, Atlanta, GA 30328, USA.
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TYPICAL SIEVE ANALYSES

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Sieve Size		Cumulative % Passing		Cumulative % Retained		
ASTM E 11	Metric	Coarse	Medium	Coarse	Medium	Fine
		#16-30	#35	#16-30	#35	#30-60
No. 12	1.70 mm	92	100	8	0	0
No. 16	1.18 mm	72	96	20	4	0
No. 20	0.85 mm	47	66	25	30	12
No. 30	0.60 mm	25	31	22	35	28
No. 40	0.42 mm	10	16	15	15	25
No. 50	0.30 mm	Trace	8	10	8	18
No. 70	0.21 mm		3		5	10
No. 100	0.149 mm					4

TOTAL METALS AND LEACHATES, ppm

ELEMENT	KLEEN BLAST 16-36 TOTAL METALS mg/kg	LEACHABLE METALS mg/L	CCME 1996 Maximum Limit Commercial/Industrial
Arsenic	9.3	0.007	50
Barium	343	1.34	2000
Cadmium	0.9	0.01	20
Chromium	35.7	0.02	800
Cobalt			300
Copper	1458		500
Lead	3.3	0.07	1000
Mercury	0.1	0.01	10
Molybdenum			40
Nickel	17.5		500
Selenium	1.0	0.06	10
Silver	1.0	0.06	40
Tin			300
Zinc	79.0		1500

Leachable metals determined by TCLP test.



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SAFETY

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Kleen Blast 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 Kleen Blast or any other abrasive. Consult your local Industrial Health & Safety Regulations, NIOSH or other requirements for guidance on the necessary safety procedures and equipment.

WASTE DISPOSAL

Before use, Kleen Blast is not classified as a special waste. The leachable metals contents, when determined by the recognized standard test procedures, are below the published limits. During use, however, the product can become contaminated with paints or other materials that would require classification of the waste material as a 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.

KLEEN BLAST USES BY SCREEN SIZE:

- #30-60** Feather and brush off, light mill scale. Water vapor blast systems 1.5 – 3.0 mil profile
- #35** Mill scale, structural steel and bottom paint preparation. For a light profile, will feather edge. Recommended for most light sandblast operations. 2.5 – 4.0 mil profile.
- #16/30** Shipyard sandblasting – all types of hull and structural work. Bottom preparation, shop blasting, concrete stripping and bridge blasting. 3.0 – 5.0 mil profile.

ABRASIVE CHEMICAL ANALYSIS*

Silicon Dioxide (SiO ₂).....	48.24 %
Iron Oxide (Fe ₂ O ₃)	.97 %
Iron Oxide (FeO).....	18.10 %
Aluminum Oxide (AlO ₃)	9.05 %
Calcium Oxide (CaO).....	18.48 %
Magnesium Oxide (MgO).....	2.90 %
Copper (Cu).....	.10 %
Manganese Oxide (MgO).....	.22 %
Free Silica	<0.1%

* Plasma Emission Spectroscopy

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