

PRODUCT

Green Diamond Abrasive Grits are high efficiency blasting grits prepared by selective screening of nickel slag. Three gradations are available to provide materials suitable for most blast cleaning operations. All three grades have a Moh's hardness of 7, giving improved cutting relative to conventional industrial and silica sands.

USES AND ADVANTAGES

- Green Diamond is suitable for most grit blasting operations on metal surfaces. The shapes of the individual particles make this product ideal for the efficient removal of mill scale, rust or existing coatings from steel and other metals in preparation for fabrication or painting.
- The high fracture resistance of Green Diamond, plus the available dust reduction treatment, reduce dust formation and give increased recoverability, improved safety factors and reduced equipment maintenance costs while continuing to provide the required degree of etch.
- The no-free silica content of Green Diamond is a significant factor in situations where the use of silica sand blasting abrasives is not acceptable for environmental or safety reasons.
- Green Diamond is classified in Fisheries and Oceans Canada Report No. 1692 of January 1991 as having moderate to low toxicity to fish, i.e. 96-h LC50 \geq 100 mg/L (Test value was > 66,000 mg/L).

PHYSICAL PROPERTIES

Colour	Green/Grey
Grain Shape	Angular to Sub Angular
Bulk Density	85 - 105 lb/ft ³ (1362 - 1682 kg/m ³)
Hardness, Moh	7
Specific Gravity	3.3
Moisture Content	<0.1% weight

Contains no free silica.

TYPICAL ANALYSIS

Silicon Dioxide	50.9
Magnesium Oxide	32.8
Iron Oxide	11.7
Aluminum Oxide	1.2

ENVIRONMENTAL

Green Diamond Abrasives meet the TCLP (40 CFR 261.24a) Criteria prior to its use. Green Diamond Abrasives contain no heavy metals exceeding the levels of the TCLP.

CERTIFICATIONS

QPL Mil 22262 b (SH), CARB Title 17, AASHTO (T104-90-T12-87)

ABRASIVE SPECIFICATIONS

Typical Screen Analysis

US Sieve Size	1636	1650	2050	30 x 50	3060
6	0	0	0	0	0
8	T	0	0	0	0
12	5 - 20	2 - 10	T	0	0
16	28 - 45	10 - 30	4 - 15	0 - 2	0
20	18 - 30	20 - 35	10 - 25	0 - 10	0
30	13 - 25	20 - 40	25 - 45	15 - 35	0 - 3
40	2 - 8	7 - 22	22 - 42	35 - 55	10 - 25
50	0 - 3	0 - 5	3 - 15	5 - 25	25 - 45
70	0 - 1	0 - 1	1 - 0	0 - 3	15 - 35
100					8 - 20
Pan	0 - 0.5	0 - 1	0 - 1	0 - 1	0 - 5

PACKAGING

Green Diamond 16-36, 20-50 and 30-60 are available in 22.7 kg (50 lb) plastic bags and in bulk bags of approximately 1,814 kg (4,000 lb) each. Deliveries by pneumatic tank trucks are also available.

SAFETY

Green Diamond Abrasives do not contain any ingredients which 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 Green Diamond or any other abrasive. Consult your local Industrial Health & Safety Regulations, NIOSH or other requirements for guidance on the required safety procedures and equipment.

CAUTION

Although Green Diamond is able to be used 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.

WASTE DISPOSAL

Before use, Green Diamond is not classified as a special waste. 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.