DURAMAX

A synthetic garnet by Ecomaterials Inc.

Be Brilliant. Go Green.



DURAMAX AbrasivesTM

A synthetic garnet made via world leading technology. With high compressive strength and high hardness, it is an ideal abrasive.

1. General Product Information

- Product Name: Duramax
- ISO Standard: In compliance with International Standard 11126-6 for abrasives

2. Chemical Analysis

Element	Test Result [wt%]
Antimony	0.00068
Arsenic	0.00060
Barium	0.0336
Beryllium	0.00022
Cadmium	0.00003
Chromium (VI)	not detected
Chromium	0.057
Cobalt	0.002

3. Physical Properties

Characteristic	Test Result	Requirement	Test Method	
- Apparent Density [lb/ft ³]	215 - 225	n/a	ISO 11127-3	
- Loose Bulk Density [lb/ft ³]	144	n/a		
- Hardness [Mohs]	7.5	Min. of 6	ISO 11127-4	
- Moisture	0.06%	Max. of 0.2%	ISO 11127-5	
- Conductivity of Aqueous Extract	12 mS/m	Max. of 25 mS/m	ISO 11127-6	
- Water-soluble Chlorides	10 ppm	25 ppm	ISO 11127-7	
- Total Crystalline Bulk Silica	0.3%	<1% (not detectable)		
- Particle Shape	Sub-angular/Angular			
- Colour	Black			
- Corrosiveness	Duramax is inert			

4. Standard Particle Sizes

- Duramax is available as a sub-angular & angular material see table for characteristics.
- Particle size and distribution in compliance with ISO Standard 11127-2.
- Oversize and Undersize fractions are max. 10% and max. 5% respectively.

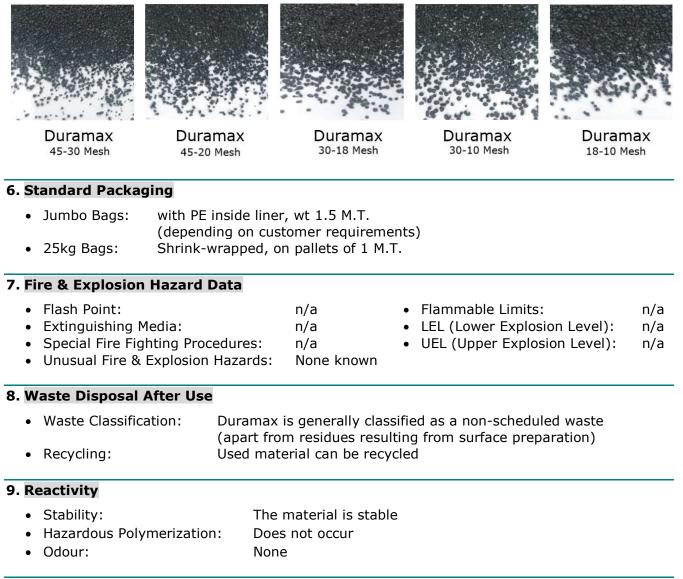
Size [Mesh]	Particle Size [mm]	Est. Surface Profile Range [microns]	Est. Consumption [kg/m²]	Surface Finishing	Applications
80 - 30	Under 0.6	40 - 80	10 - 15	SA 3	Petrochemical
45 - 30	0.2 - 0.6	40 - 80	15 - 20	SA 3	
45 - 20	0.2 - 0.8	70 – 90	15 - 20	SA 3	- Oil & Gas
45 - 18	0.2 - 1.0	80 - 100	20 - 25	SA 3	
30 - 18	0.6 - 1.0	100 - 110	25 - 30	SA 2.5	Ship Building - Ship Repair
30 - 10	0.6 - 2.0	110 - 120	30 - 35	SA 2.5	
18 - 10	1.0 - 2.0	120 - 130	35 - 40	SA 2.5	



DURAMAX AbrasivesTM

An eco-friendly material certified by environmental agencies that produces low dusting rates, is clean and safe to use.

5. Standard Particle Size Images



10. Storage & Handling

- Dust: Respirable dust may be generated during processing, handling
- PPE: Personal protection and dust controls should be applied.
- Storage: Keep product dry until required for effective use.

11. Manufacturer Information



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