



DURAMAX

A synthetic garnet by Ecomaterials Inc.

Be Brilliant. Go Green.



DURAMAX Abrasives™

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%]	Element	Test Result [wt%]
Antimony	0.00068	Copper	0.00028
Arsenic	0.00060	Lead	0.00052
Barium	0.0336	Mercury	0.0003
Beryllium	0.00022	Molybdenum	0.0001
Cadmium	0.00003	Nickel	0.0002
Chromium (VI)	not detected	Selenium	0.0005
Chromium	0.057	Silver	0.0002
Cobalt	0.002	Zinc	0.0015

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/m ²]	Surface Finishing	Applications
80 – 30	Under 0.6	40 – 80	10 – 15	SA 3	Petrochemical - Oil & Gas
45 – 30	0.2 – 0.6	40 – 80	15 – 20	SA 3	
45 – 20	0.2 – 0.8	70 – 90	15 – 20	SA 3	
45 – 18	0.2 – 1.0	80 – 100	20 – 25	SA 3	Ship Building - Ship Repair
30 – 18	0.6 – 1.0	100 – 110	25 – 30	SA 2.5	
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 Abrasives™

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

5. Standard Particle Size Images



Duramax
45-30 Mesh



Duramax
45-20 Mesh



Duramax
30-18 Mesh



Duramax
30-10 Mesh



Duramax
18-10 Mesh

6. Standard Packaging

- Jumbo Bags: with PE inside liner, wt 1.5 M.T.
(depending on customer requirements)
- 25kg Bags: Shrink-wrapped, on pallets of 1 M.T.

7. Fire & Explosion Hazard Data

- | | | | |
|-------------------------------------|------------|--------------------------------|-----|
| • Flash Point: | n/a | • Flammable Limits: | n/a |
| • Extinguishing Media: | n/a | • LEL (Lower Explosion Level): | n/a |
| • Special Fire Fighting Procedures: | n/a | • UEL (Upper Explosion Level): | n/a |
| • Unusual Fire & Explosion Hazards: | None known | | |

8. Waste Disposal After Use

- Waste Classification: Duramax is generally classified as a non-scheduled waste (apart from residues resulting from surface preparation)
- Recycling: Used material can be recycled

9. Reactivity

- | | |
|-----------------------------|------------------------|
| • Stability: | The material is stable |
| • Hazardous Polymerization: | Does not occur |
| • Odour: | None |

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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