
DURAMAX
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%]
Antimony	not detected
Arsenic	not detected
Barium	0.1040
Beryllium	not detected
Cadmium	not detected
Chromium(VI)	not detected
Chromium	0.0387
Cobalt	0.0025
Copper	0.0070
Fluoride Salts	not detected

Element	Test Result [wt%]
Lead	not detected
Mercury	not detected
Molybdenum	0.0009
Nickel	0.0010
Selenium	0.0009
Silver	not detected
Thallium	not detected
Vanadium	0.0515
Zinc	0.0084

3. Physical Properties

Characteristic	Test Result	Requirement	Test Method
- Apparent Density [g/cm^3]	3.45 – 3.60	n/a	ISO 11127-3
- Loose Bulk Density [g/cm^3]	2.3	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
- Free Silica	Not Detected	<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
45 – 30	0.2 – 0.6	40 – 80	15 – 20	SA 3	Petrochemical - Oil & Gas
45 – 20	0.2 – 0.8	70 – 90	15 – 20	SA 3	
45 – 18	0.2 – 1.0	80 – 100	20 – 25	SA 3	
45 – 16	0.2 – 1.2	90 – 120	25 – 30	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	

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An eco-friendly material certified by environmental agencies that produces low dusting rates, has no free silica, and is clean and safe to use

5. Standard Particle Size Images

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

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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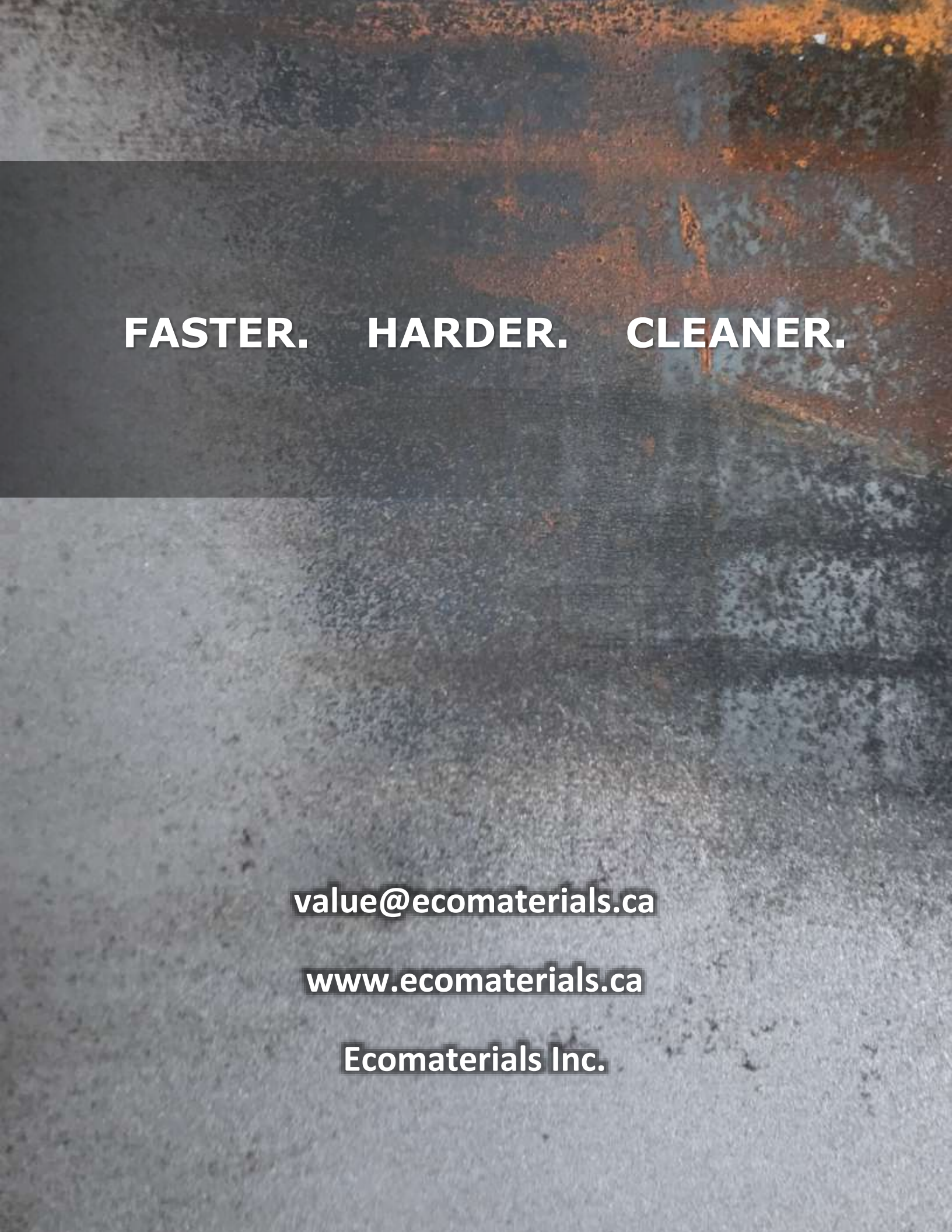

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