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Innovation | Quality | Performance

Green Diamond Performance Materials

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ENERGY - MARITIME - ENGINEERING - CONSTRUCTION



PROFESSIONAL QUALITY
BLUE & GREEN
SOLUTIONS



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Get to know PQ

Welcome to
ProQualea
Middle East

We specialise in delivering sustainable and superior energy, maritime, engineering, and construction solutions across many diverse industries and we strive to provide cutting-edge products and solutions that not only meet the highest standards of quality and performance but also contribute to a safer, greener and a next generation of a more responsible future.

Our Mission

"Our primary mission is to be a trusted partner to our clients in the Middle East, providing you with the tools, products, technology and expertise needed to thrive in this rapidly evolving, competitive landscape".

Our Vision

"Our fundamental strategy is developing long-term relationships with our clients and partners based on earned trust, proven credibility, and integrity that emphasises a high quality of service paired with traditional values and strong client relationships".

Middle East LLC



Our Focus

"We focus on researching and delivering superior solutions that is matched only by our dedication to sustainable practises, products and solutions that align with enviromental goals of our clients".



WWW.PROQUALEA.COM

Join us in shaping a future where quality,
excellence, and environmental responsibility
converge seamlessly

ENERGY - MARITIME - ENGINEERING - CONSTRUCTION

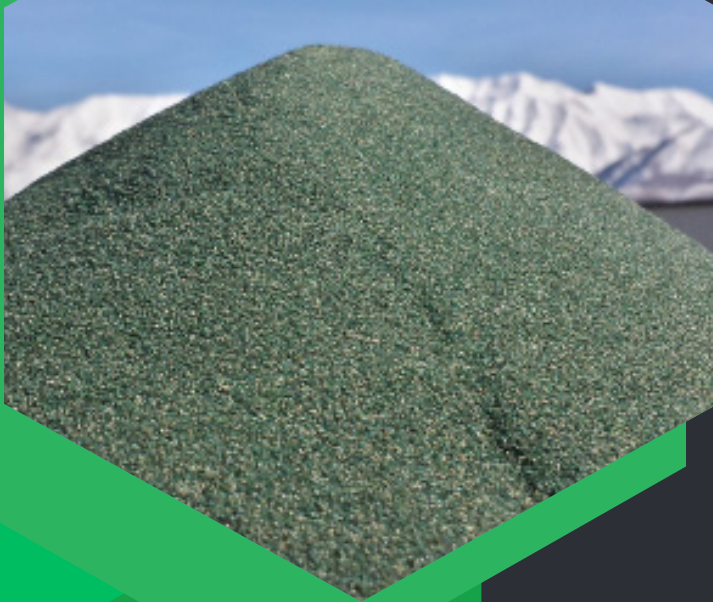


Introducing Green Diamond Performance Materials

Green Diamond Performance products are produced from the 10-million-ton magnesium orthosilicate reserve located in Riddle, Oregon and due to its amorphous structure all our products are non-toxic and contains zero respirable free silica.

In the utilization of Green Diamond, we always look at the cleanliness and the consistency.

We put a tremendous amount of effort and dollars behind our processing, which makes our products such high quality. That's something that we stand behind day in and day out.



Why do PQ stand behind Green Diamond?

We firmly believe that Green Diamond Performance Materials delivers the most cost effective, best profiling, safe, consistent, and environmentally friendly, blast abrasives in the industry.”
(ProQualea R&D Department)



ENERGY - MARITIME - ENGINEERING - CONSTRUCTION

GREEN DIAMOND™
PERFORMANCE MATERIALS

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Test Parameters

To test we used SPC Grade B new steel, a new number six 3/8-inch Venturi style blasting nozzle AT 100PSI. And was utilized to obtain an SP5 white metal surface and we measured the total abrasive use for each material.

Once the blast stream had been optimized for each abrasive's bulk density, an area was cleaned and time to completion was recorded.

After the material was cleaned, we measured the mill profile using standard methods.



16:36

"Provided the best performance of all other products in its class, as well as the lowest total cost per square foot of any abrasives that met the profile specification"



20:50

"Easily Outperformed all other abrasives with cleaning rates as much as 40% faster. The Total Cost was Reduced by as much as 18%".



30:60

"Came out on top with as much as an 11% cost advantage over the nearest competitor"

While we pride ourselves on the ability to process high volumes of materials, we also enjoy the flexibility to make speciality products exclusively for our clients"

Green Diamond Performance Materials

Firstly its important to understand what the mesh size means.

That is, what's the 3060 versus an 80 mesh?

(These numbers refer to the physical size of an abrasive particles as they relate to a linear inch.)

30 mesh means you've have 30 abrasive particles in in a row. And they'll take up an inch in a row.

So the higher the number, the smaller abrasive particle the same as sandpaper.

So for example if we have a 3060. This means that all the abrasive particles are supposed to be in that size range between 30 mesh and 60 mesh. This will mean that the branding particles make a large impact on your project results.

The larger the particle, typically, the larger the profile you'll create.

If you create too much profile, you'll be wasting a considerable amount of paint

Other points to consider are the consistency of the particle sizes. More consistently results are the better and can be measured in the abrasive metering valve and saving you money.

"This will allow you to make the right choice abrasive for your project & not waste time and money"

Applications

Surface Preparation:

Used to clean, roughen, or smoothen surfaces before painting, coating, or bonding. It removes rust, old paint, scale, and other contaminants, ensuring proper adhesion and longevity of coatings.

Corrosion Removal:

Effectively removes corrosion, rust, and oxidation from metal surfaces in various industrial settings, extending the lifespan of equipment and structures.

Coating Removal:

Strips old coatings, paints, varnishes, or sealants from surfaces, preparing them for recoating or refurbishment. It ensures a clean substrate for new coatings to adhere to.

Profiling:

Shapes or contours surfaces to Specific dimensions or profiles for fitting, welding, or assembly purposes, ensuring precise alignment and compatibility in manufacturing and construction projects.

Tank and Vessel Cleaning:

Cleans interior surfaces of tanks, vessels, and containers used in chemical, food processing, and storage industries, removing residues, scale, and contaminants to maintain hygiene and safety standards.

Applications Continued

Concrete Surface Preparation:

Prepares concrete surfaces for resurfacing, repair, or coating by removing old coatings, dirt, grease, and contaminants, ensuring proper adhesion and durability of overlays or coatings.

Texturing:

Creates various surface finishes or textures on materials like metal, wood, or concrete for decorative or functional purposes, such as providing grip or aesthetic appeal.

Peening:

Induces controlled stress on metal surfaces, increasing fatigue strength and resistance to cracking. Widely applied in aerospace, automotive, and manufacturing industries to improve component durability.

Descaling:

Removes scale, mill scale, oxides, and heat-treat scale from metal surfaces, restoring their original appearance, texture, and properties. Frequently used in metal fabrication and restoration projects.

Cleaning:

Removes dirt, grime, grease, and other contaminants from surfaces, equipment, and machinery in industrial, automotive, and maintenance applications, ensuring cleanliness and efficiency.

Deburring:

Efficiently removes burrs, sharp edges, and unwanted material from metal, plastic, or composite components, enhancing their safety, functionality, and aesthetics.

Etching:

Precisely engraves or marks surfaces with logos, identification numbers, patterns, or designs. Commonly used in signage, jewelry making, and artistic applications for customization and branding purposes.

Mold Cleaning:

Cleans molds used in manufacturing processes, removing residue, buildup, and imperfections to ensure product quality and consistency in industries such as plastics, ceramics, and composites.

Historical Restoration:

Restores historical monuments, buildings, and artifacts by removing dirt, grime, and pollutants, preserving their original appearance and cultural significance for future generations.

Speciality Materials:

Collaboration lies at the heart of our approach. We work closely with our clients to understand their unique needs, challenges, and goals. This allows us to develop customized solutions that optimize efficiency, enhance safety, and drive sustainable growth in the energy and heavy industry sector.

PQ Process

Professional Quality Solutions

PQ Portal



Operations

Produce six surface preparation grades we are able to customise

While we pride ourselves on the ability to process high volumes of materials, we also enjoy the flexibility to make specialty products.

We partner with entrepreneurs and product development specialists to create new products requiring specific characteristics.



Logistics

Ability to Provide Multiple Packaging Options including loose Bulk

We Deliver an up to the minute shipping operations apparatus that will express your order in the most economical and eco conscious, globally challenged route. we not only track and manage of your order but we have each order headed and supervised by a specialist client liason director who has key responsibility for your order to arrive at your project at any nominated address on the delivery confirmation within the PQ Portal.



Client Services

Real Time Customer assistance & Technical Support

Clients have access to our specialists at any point of your project. Real time client services using the PQ Portal, Access to a multi functional app which allows users to take videos, scans, and photos of any obstacles they may be facing with their project in real time.

Gives access to the PQ project calculator (PQ+) we are the only distributor in the industry to offer that level of customer focused services on the market.

From Quarry to Customer...

...We manage the complete supply chain from mining and processing to distribution & after sales throughout the Middle East"



The PQ Portal

The PQ portal is your go to resource for industry news, technical leaps and trends, 10 years from now & tailored industry news feeds.

The PQ Portal is for new and existing clients that enables them access to our multi purpose app for blue and green solutions and trouble shooting, FAQs, open forum for advise, and assistance for your next projects.

8+ Reasons why you should try Green Diamond

Safe, Highly Productive Low-Cost Abrasive

- 1 Cost-effective Blasting & Cutting Abrasives.
- 2 Silica Free - Crystallization Completely Amorphous
- 3 Environmentally Friendlier
- 4 Controlled Profile
- 5 Consistency from a Single Source
- 6 Reduced Abrasive Consumption
- 7 Low Dust Blasting
- 8 Better Surface Quality

COST PER SQM?

GREEN DIAMOND™
PERFORMANCE MATERIALS

If it's Cleaner than your current solution, consistent, environmentally better and safer for your team THEN why wouldn't our clients want to make the decision or recommend it to those who do have the power to make a difference?"

The Green Diamond History:

1961

The founders of Green Diamond looked upon a discarded 20-million ton mountain of nickel slag and saw not waste

But Opportunity.

1963

Green Diamond began making construction grits and abrasive blast media. As time passed and technology progressed, the process of refining materials became efficient and new products were created.

1990s

By the mid-90's Green Diamond had established itself as leading manufacturer of abrasive blast media, foundry products, roofing materials and specialty aggregates.

2024

Today, while these products remain as the central pillars of the business, Green Diamond continues to find new industries and uses for its still plentiful reserve.

Year after year, Green Diamond continued to advance at the pace of industry and to enter new markets.

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Past Performance

Past Performance

Supplied abrasive for surface preparation for US Ministry of Defence

- USS Preble in San Diego CA.
- USS Spruance in San Diego CA.
- Ingalls Shipyard in Pascagoula MS.
- USCG Aluminum Hulls in OR.



Listed on the US military PPL

Green Diamond abrasives comply with all occupational health and safety standards and are listed on the military PPL and are CARB certified under Title 17 of the State of California and meet all specifications of the American Association of State Highway and Transportation Officials.

This ensures your complete compliance with all regulations in your area of business and can help you fast track contracts.

"Green Diamond Performance Blast Materials are new to the Middle Eastern market and are approved by international certification bodies and trusted by International Organisations".





Our ethos and the **REASON** why we decided to focus on the **BIG 4**



Energy

Shipyard Operations:

Cleaning and preparation of ship surfaces for maintenance repair or repainting. removing marine growth, rust and coatings to ensure sea worthiness and longevity.

Vessel Maintenance:

Cleaning and preparation services for vessels, barges and offshore platforms for maintenance inspection or recoating, removing corrosion, scow and marine fouling.

Port Infrastructure Maintenance:

Cleans and repairing surfaces of docks and piers, maritime structures for maintenance or refurbishment including removing rust, corrosion and coatings to extend service life.

Underwater Maintenance:

Cleaning and preparation for underwater services of ships, offshore structures and pipelines for inspection repair or maintenance removing marine growth and coatings.



Maritime

Oil and Gas equipment maintenance:

Cleaning and preparation of oilfield equipment, including pipes, tanks and drilling machinery by removing rust scale and coatings to ensure operational efficiency and safety.

Power Plant Maintenance:

Prepare services of boilers, turbines and other power plant components for maintenance repair or repainting by removing corrosion, scow and contaminants.

Renewable Energy Infrastructure Maintenance:

Cleaning and preparation of surfaces of water components solar panels and hydro electric equipment for maintenance or refurbishment insuring optimal performance and longevity.



Engineering

Concrete Surface Preparation:

Preparation of concrete surfaces for construction or renovation projects by removing coatings, dirt, and contaminants, ensuring proper adhesion of overlays, coatings, or sealants.

Bridge Maintenance:

Cleaning and preparing of bridge surfaces for inspection, repair, or repainting, removing rust, corrosion, and coatings to maintain structural integrity and safety standards.

Highway Maintenance:

Cleaning and preparing surfaces of highway infrastructure, such as guard-rails, barriers, and signage, for maintenance or repainting, ensuring visibility and safety.

Building Restoration:

Restoration of historical buildings, monuments, and structures by removing dirt, grime, and pollutants, preserving their original appearance and structural integrity for future generations.



Construction

Manufacturing Equipment Maintenance:

Cleaning and preparation of surfaces of manufacturing machinery, tools, and equipment for maintenance, repair, or recoating, ensuring optimal performance and longevity.

Fabrication Preparation:

Preparation metal components for fabrication by removing mill scale, rust, and contaminants, ensuring proper weld quality and adherence.

Construction Equipment Maintenance:

Cleaning and preparation of surfaces of construction machinery, vehicles, and tools for maintenance or repainting, removing dirt, grime, and coatings.

Structural Steel Preparation:

Prepares structural steel components for construction or renovation projects by removing rust, scale, and coatings, ensuring proper adhesion of protective coatings and finishes.



Maritime



PQ
Middle East
بروكواليا

Engineering

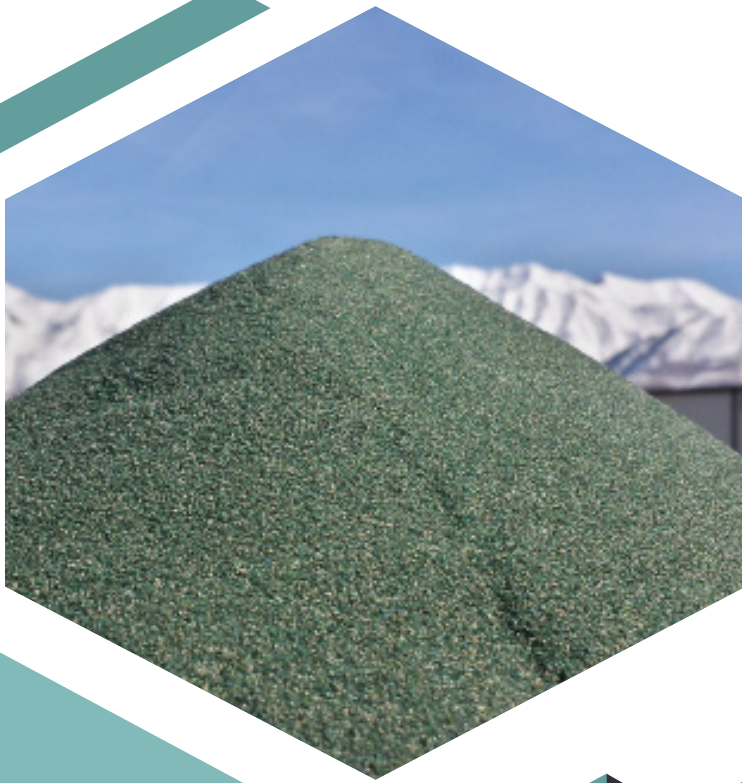


Construction



Our Store

“When it comes to sandblasting and water jet abrasives many people in the industry underestimate the importance of using the correctly sized grains for the job”...

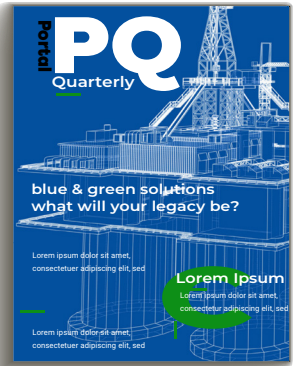


PQ Portal

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The PQ portal is your go to for industry news, technical leaps, trends, 10 years from now & tailored industry feeds. Client portal is for clients that are existing and have access to the full multi-purpose app for blue and green solutions, trouble shooting and FAQs.

Open forum for advise and assistance plus our 24 hour live client services including: blasting specialists, oil and gas, maritime, engineering and construction issues that need a solution in real time.



Portal Quarterly
Online

Green Diamond Performance Materials offers the best abrasive blasting media resulting in the lowest total cost/sq/m. Customers majorly benefit from our commitment to creating consistent, clean and safe products. We offer unsurpassed customer support, vast distribution and more importantly, peace of mind that you are getting the best abrasive products on the market.

In addition, Green Diamond Performance Materials are proud to be OPL MIL-A-22262B certified on steel and aluminum blasting.



GREEN DIAMOND™
PERFORMANCE MATERIALS

16:36

Application:-

Ships, Storage Tanks, Structural Steel, Aggregate Exposure - General Purpose

Size:- Coarse

Anchor Profile:- Mil Profile 3.5 to 5+

Nozzle opening (min):- Nozzle Minimum 5/16"



GREEN DIAMOND™
PERFORMANCE MATERIALS

16:50

Application:-

Medium Coatings, Medium Rust, Utility Preparation, Structural Steel, Storage Tanks

Size:- Medium

Anchor Profile:- Mil Profile 3 to 4.5

Nozzle opening (min):- Nozzle Minimum 5/16"



GREEN DIAMOND™
PERFORMANCE MATERIALS

20:50

Application:-

Mill Scale, Light Coatings, Light Rust, Bridges

Size:- Medium/Fine

Anchor Profile:- Mil Profile 2.5 to 4

Nozzle opening (min):- Nozzle Minimum 1/4"



GREEN DIAMOND™
PERFORMANCE MATERIALS

30:50

Application:-

Light Coatings, Light Rust, Blast Cabinets, Bridges, Aluminum, Stainless Steel

Size:- Fine

Anchor Profile:- Mil Profile 1.5 to 2.5

Nozzle opening (min):- Nozzle Minimum



GREEN DIAMOND™
PERFORMANCE MATERIALS

30:60

Application:-

Ships, Storage Tanks, Structural Steel, Aggregate Exposure - General Purpose

Size:- Extra Fine

Anchor Profile:- Mil Profile 1 to 2

Nozzle opening (min):- Nozzle Minimum 1/8"

Speciality Materials

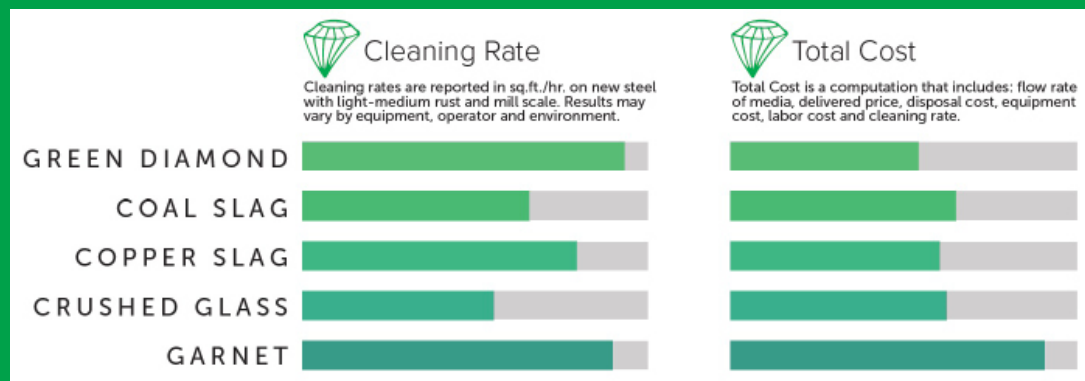
"Whilst we pride ourselves on our ability to process high volumes of materials, we also enjoy the flexibility to deliver speciality products"

Green Diamond offers the best abrasive blast media resulting in the lowest total cost per/sq/m.

Our commitment is to create consistent, clean and safe products.

We offer unsurpassed customer support, vast distribution and more importantly, Peace of Mind that your clients are getting the best abrasive products on the market.

Cleaning Rates Vs Total Cost



Benefits of: Green Diamond Performance Sustainable Materials

for uses in the E.M.E.C industries

1. Surface Preparation:

- **Benefit:** Green Diamond's sustainable media offers superior cleaning and surface preparation while minimizing environmental impact. Its high-performance properties ensure efficient removal of contaminants, resulting in enhanced coating adhesion and prolonged durability.

- Why Choose Green Diamond:

By choosing Green Diamond over traditional media types, industries can achieve superior surface preparation results while reducing waste and environmental footprint, ultimately leading to cost savings and regulatory compliance.

2. Corrosion Removal:

- **Benefit:** Green Diamond's sustainable media effectively removes corrosion and rust without causing damage to the underlying substrate. Its durability and hardness ensure thorough removal of corrosion while minimizing material loss.

- **Why Choose Green Diamond:** With Green Diamond, industries can achieve efficient corrosion removal with minimal material consumption and environmental impact, leading to cost savings and improved asset longevity.

3. Coating Removal:

- **Benefit:** Green Diamond's sustainable media excels in stripping old coatings, paints, and sealants without generating harmful dust or waste. Its sharp cutting edges ensure rapid and thorough removal while maintaining surface integrity.

- **Why Choose Green Diamond:** Industries can trust Green Diamond for efficient and eco-friendly coating removal, reducing downtime and disposal costs associated with traditional media types, and promoting a safer work environment.

4. Deburring:

- **Benefit:** Green Diamond's sustainable media provides precise and consistent deburring results, eliminating sharp edges and imperfections without compromising material integrity. Its hardness and durability ensure long-lasting performance.

- **Why Choose Green Diamond:** By choosing Green Diamond for deburring applications, industries can achieve superior edge quality and dimensional accuracy while reducing material waste and operator fatigue, leading to increased productivity and cost efficiency.

5. Peening:

- Benefit:

Green Diamond's sustainable media delivers controlled peening effects, improving component fatigue strength and resistance to cracking. Its uniform shape and size ensure consistent results with minimal material consumption.

- Why Choose Green Diamond: With Green Diamond, industries can enhance component durability and performance while minimizing environmental impact and operating costs associated with traditional peening media, leading to long-term savings and improved product quality.

6. Texturing:

- Benefit: Green Diamond's sustainable media offers versatile texturing capabilities, creating various surface finishes and patterns for decorative or functional purposes. Its hardness and abrasion resistance ensure long-lasting texture retention.

- Why Choose Green Diamond: Green Diamond provides unmatched flexibility and precision in surface texturing, allowing industries to achieve unique design aesthetics and performance enhancements while reducing material waste and environmental footprint.

7. Cleaning:

- Benefit: Green Diamond's sustainable media provides thorough cleaning of surfaces, equipment, and machinery without generating harmful dust or residues. Its abrasive properties ensure efficient removal of dirt, grime, and contaminants.

- Why Choose Green Diamond: With Green Diamond, industries can achieve superior cleaning results while minimizing environmental impact and promoting a safer work environment. Its durability and recyclability make it a cost-effective and sustainable choice for cleaning applications.

8. Etching:

- Benefit: Green Diamond's sustainable media offers precise and consistent etching results, engraving logos, patterns, or designs with sharp detail and clarity. Its hardness and uniformity ensure reliable performance on various surfaces.

- Why Choose Green Diamond: Green Diamond provides unparalleled precision and quality in surface etching, enabling industries to achieve distinctive branding and customization while minimizing material waste and environmental impact. Its sustainability and performance make it the preferred choice for etching applications.

In Summary

Green Diamond Performance Sustainable Media offers superior performance, environmental sustainability, and cost efficiency across a wide range of applications in the energy, maritime, engineering, and construction industries. By choosing Green Diamond over existing media types, industries can achieve optimal results while minimizing waste, reducing environmental footprint, and promoting a safer and more sustainable future.

TECHNICAL DATA SHEET

Green Diamond is fused magnesium orthosilicate formed from quenched lateritic ore. The Green Diamond particle is amorphous, chemically inert and contains no crystalline free silica, our single source reserve exceeds 10 million tons, ensuring quality, consistency and performance with every use."

Product	Size	Anchor Profile (Mil)	Nozzle Opening (Min)	Application
16:36	Coarse	Mil Profile 3.5 to 5+	Nozzle Min 5/16"	Ships - Storage Tanks - Structural Steel Aggregate Exposure - General Purpose.
16:50	Medium	Mil Profile 3 to 4.5	Nozzle Min 5/16"	Medium Coatings - Medium Rust - Utility Preparation Structural Steel - Storage Tanks
20:50	Medium/Fine	Mil Profile 2.5 to 4	Nozzle Min 1/4"	Mill Scale - Light Coatings - Light Rust - Bridges
30:50	Fine	Mil Profile 1.5 to 2.5	Nozzle Min 1/4"	Light Coatings - Light Rust - Blast Cabinets Bridges - Aluminum - Stainless Steel
30:60	Extra Fine	Mil Profile 1 to 2	Nozzle Min 1/8"	Vapor/Water Blast - Blast Cabinets - Feathering Aluminum - Stainless Steel - Powder Coating

*Anchor profile is not guaranteed and is based on 100 psi

TYPICAL SCREEN ANALYSIS

US Sieve Size	16:36	16:50	20:50	30:50	30:60
12	5 - 20	2 - 10			
16	28 - 45	10 - 30	4 - 15	0 - 2	
20	18 - 30	20 - 35	10 - 25	0 - 10	
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	0 - 1	0 - 3	15 - 35
100					8 - 20
Pan	0 - 0.5	0 - 1	0 - 1	0 - 1	0 - 5

Shape	Angular/Sub-Angular
Specific Gravity	2.9
Colour	Green to Grey
Mohs Hardness	7
Crystallisation	Amorphous
Bulk Density	85 to 105 Lbs./Cu. Ft.
Weight on Ignition	< 0.1% loss, no gain
Conductivity	< 100 μ
Moisture Content	< 0.3%
Oil Content	Not Detectable
Crystalline Silica	<0.1%
Beryllium	Not Detectable
Grade	1 - 4
Chlorides	< 5ppm
Reactivity	Inert
Moisture Absorption	Non-hygroscopic

Green Diamond Vs. Garnet

Green Diamond's performance Materials delivers the most cost effective, best profiling, consistent and environmentally friendly blast cleaning abrasives in the industry.

Total Cost: Cleaning rates, material cost, and an optimized flow rate contribute to the total cost of surface preparation by abrasive blasting, Superior cleaning rates and low material costs. Make Green diamond abrasives the most cost effective in the industry.

Cost And Efficiency:

Green Diamond Abrasives Vs. Garnet

	Fine	Extra Fine
TOTAL COST GDPM	- 15%	- 11%
CLEANING RATE GDPM	+ 18%	+ 10%

Independent testing reveals: With comparable removal rates. Garnet has a higher total cost compared to green diamond performance materials when blasting to an SP-5 white metal surface on SSPC grade B new steel at 100psi, measured at the nozzle, the optimized flow rate for each abrasive's bulk density. Delivered costs of material will vary based on packaging, location and quantity. Individual results may vary

PRICE DOES NOT EQUAL PERFORMANCE:

Recent tests shows that Green Diamonds Blast material have out performed Garnet and is available at a much lower price. Total cost savings are easily realized without sacrificing cleaning rates or surface quality.

AVAILABILITY: only 3.1% of all garnet is mined domestically, making it susceptible to supply interruptions as experienced from 2016 to present, Geopolitical instability has led to major supply disruptions to the US and the World and as a result, prices have skyrocketed Green Diamond Blast material would always be readily available and price stable because it is single sourced from our exclusive 10-million-ton mineral reserve equal to 40 years of production.

KEY TAKEAWAY:

- Lower Total Cost.
- Up to 25% more media by weight
- World-Class Performance.
- Single Sourced in Oregon USA.
- Meets Health & Safety Compliance.
- Clean and Consistent.
- Outstanding Customer Service.

Green Diamond Performance Materials delivers the most cost effective, best profiling, consistent and environmentally friendly blast cleaning abrasives in the industry.

Total Cost: Cleaning rate, material cost, and an optimized flow rate contribute to the total cost of surface preparation by abrasive blasting. Superior cleaning rates and low material costs make green diamond abrasives the most cost effective in the industry.

Cost And Efficiency:

Green Diamond Abrasives Vs. Copper Slag

	Medium	Fine
TOTAL COST GDPM	- 7%	- 2%
CLEANING RATE GDPM	+ 9%	+ 6%

Independent testing reveals that Copper Slag has a higher total cost and lower cleaning rate compared to Green Diamond's performance materials abrasives when blasting to an SP-5 white metal surface on SSPC Grade B new steel at 100 PSI. Measured at the nozzle and optimized flow rate for each abrasives. Bulk density. Delivered costs of material will vary based on packaging, location and quantity. Individual results may vary.



DENSITY DISPARITY:

Because Green Diamond is 25% less dense than copper slag. Fewer pounds per hour are consumed, meaning you get 25% more abrasive per truck load, which means you get 25% more blasting for the same space. In today's market. Many companies blend, cut and dilute their abrasives to remain competitive. Copper slag is often compromised of materials from various sources of variable quality resulting in heterogeneous products.

Green Diamond Performance Materials delivers the most cost effective, best profiling, consistent and environmentally friendly blast cleaning abrasives in the industry.

Total Cost: Cleaning rate, material cost, and an optimized flow rate contribute to the total cost of surface preparation. By abrasive blasting. Superior cleaning rates and low material costs make green diamond abrasives the most cost effective in the industry.

Cost And Efficiency:

Green Diamond Abrasives Vs. Coal Slag

	Medium	Fine	Extra Fine
TOTAL COST GDPM	- 40.5%	- 17%	- 7%
CLEANING RATE GDPM	+ 67%	+ 11%	+ 22%

Independent testing reveals that Coal Slag has a higher total cost and lower cleaning rate compared to Green Diamond's performance materials abrasives when blasting to an SP-5 white metal surface on SSPC Grade B new steel at 100 PSI. Measured at the nozzle and optimized flow rate for each abrasives. Bulk density. Delivered costs of material will vary based on packaging, location and quantity. Individual results may vary.

A DECLINING RESOURCE:

As the use of coal continues to decrease in power generation and infrastructure uses, the number of coal slag tons will continue to decline. Green Diamond Abrasives will always be readily available and price stable because it is single sourced in Riddle Oregon, USA from our exclusive mineral reserve equal to +40 years of production.

BENEFITS OF GREEN DIAMOND:

- Cost-Effective blasting
- Cleaner
- Controlled Profile
- Up to 25% more media by weight
- Homogeneous and predictable
- Single Sourced in Oregon USA
- Outstanding Customer Service

Frequently Asked Questions

What is Green Diamond?

- Green Diamond is a synthetic amorphous magnesium silicate.

What makes Green Diamond unique?

- Our competitive advantage starts with the raw material. The purity of the raw material is unmatched in the industry. We utilise a proprietary cleaning and separating process in combination with traditional precision sizing techniques.

Where does Green Diamond come from?

- Green Diamond is single sourced in Riddle, Oregon USA. It's single source aids in consistency and uniformity so that you know you're getting a great product every time.

What certifications does Green Diamond have?

- Green Diamond is proud to be the only magnesium silicate product on the US Department of Defense QPD/QPL. We are certified for outdoor blasting with the California Air Resources Board. We are AMPP AB-1 Certified Class A and certify all materials to be within the standards to these specifications.

What about ISO 11126 and 11127?

- Though Green Diamond does not specifically operate under the ISO material specifications, between the AMPP AB-1 and independent 3rd party testing, we attest that our materials meet or exceed the ISO requirements under specifications for non-metallic blast cleaning abrasives – Part 5.

Is Green Diamond environmentally friendly?

- Absolutely! Under standard conditions, Green Diamond does NOT present as US federally hazardous, and shows no levels of toxicity or corrosivity. In LC50 testing, fathead minnow and trout do not show any mortality or behavioral changes at highest required doses.

OSHA has strict limits on dust emissions. Does Green Diamond conform OSHA Standards?

- It is important to know your substrate and what coating, of any, is being removed. Green Diamond becomes one component of airborne particles. In independent industrial hygiene tests, Green Diamond as a singular input does not exceed 8-hour PELs or action levels. Of special importance, bulk analysis of the materials shows non-detectable levels of both Beryllium and Crystalline Silica.

For more information or technical specification:

[Technical Documents >](#)



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