



GMA PremiumBlast™ Outperforms Chinese 30/60 Crushed Rock Garnet with 57% Higher Productivity

Reducing Costs for Malaysian Oil & Gas Contractor, Maju Universal



Project

Improving blast performance and operational efficiency for the business. The trial included a new construction project. Project Area: 1000m² Anchor Profile: 60 microns

Location

Labuan, Malaysia

Customer

Maju Universal is one of the largest oil and gas contracting company in Labuan. Specializing in blasting and coating services, steel fabrication, machining, and repair works.

Abrasive

Chinese 30/60 crushed rock garnet VS GMA PremiumBlast™

Overview

Malaysian Contractor specializing in blasting and coating services looking for greater efficiency across operations, with a focus on safety & environmental impact.

The project involved:

- Reduce blasting time and labor
- Minimize dust in a confined environment
- Lower total project costs
- Reduce environmental impact
- Deliver average 60 micron surface profile on blasted surface

The Challenge:

Maju Universal was using 100% Chinese 30/60 hard rock garnet, which created several operational and environmental challenges:

- Reduced productivity and higher abrasive consumption due to lower toughness
- Increased disposal costs and longer cleanup times due to greater abrasive usage and waste generation
- Increased wear on blasting equipment, leading to higher maintenance requirements
- Elevated dust levels and contaminants, impacting visibility, operator safety, housekeeping requirements, and environmental performance
- High abrasive embedment, creating a non-uniform surface profile

Maju Universal required a cleaner, safer, and more efficient blasting solution that could improve productivity while reducing dust generation, waste volumes, and overall environmental impact.

Using GMA Garnet™



TOTAL PROJECT COST SAVINGS
Using GMA PremiumBlast™
28.52% savings.



PRODUCTIVITY
57.1% or 2.0m²/hr
more efficient.



LABOR
200 hours less labor with GMA.
13 days compared to 20.4 days.



ABRASIVE CONSUMPTION
37% or 8.4 tons less
abrasive.

Why is GMA Garnet™ the preferred blasting abrasive?

Achieve safe, effective blasting with minimized consumption and unmatched coating adhesion.



Surface quality

The proven choice for exceptional coating adhesion and reduced embedment, outperforming other garnet abrasives.



High productivity

GMA maximizes productivity and can significantly reduce the cost of surface preparation jobs.



Reduced consumption

Lower your abrasive consumption by 30-50%, giving you savings in abrasive purchase costs, as well as transport, storage and disposal costs.



Workers safety

Garnet is a chemically inert mineral, with little to no heavy metals creating worker health and safety risks or environmental contamination.



Low dust blasting

Independent tests show GMA Garnet™ cuts dust, boosting visibility and lowering contamination.



Sustainable resource

GMA Garnet™ adheres to strict quality compliance, offering a responsible solution for used garnet disposal and environmental sustainability.

Disclaimer: GMA applies a uniform methodology to compare costs across various variables. However, discrepancies in costs may occur. It is crucial to consult with GMA and alternative suppliers to confirm the final associated costs and pricing before finalizing your choice of blast abrasive.

The information presented is intended for comparison purposes only and may not accurately reflect the specific prices and costs associated with your blasting project. GMA disclaims any liability for differences between these estimates and actual costs incurred.

Please be aware that the estimates provided are based on blasting bare steel sheets and are meant for general informational use. The calculated figure does not represent a formal offer, and any declarations made herein should not be considered definitive or legally binding. GMA is not accountable for any errors that may arise from rate changes or offers not reflected in this tool's results post-use.

We strongly recommend verifying the most current offers and prices with your chosen suppliers.

Solution

GMA technical specialists conducted an on-site abrasive trial at the customer's facility to evaluate productivity, abrasive consumption, safety, and overall blasting performance under actual operating conditions. Working closely with supervisors and operators, the team optimized blasting pressures and equipment settings to maximize performance and ensure a fair comparison.

With setup optimization, GMA Garnet™ delivered:

- Higher productivity
- Significantly reduced abrasive consumption (30 - 50% saving)
- Lower waste volumes
- Cleaner, safer blasting conditions.
- More uniform surface profile with increased surface area

The crew increased overall efficiency, achieved the surface-preparation requirements while improving safety and environmental outcomes. The site now uses GMA Garnet™ as its go-to abrasive.

Clean & Safer Working Environment

Lower dust generation created a cleaner work environment, supporting both worker safety objectives, equipment maintenance and environmental performance targets.

"I would say the most valuable aspects of GMA Garnet™ for industrial blasting and painting operations are its high productivity, low consumption rate, and exceptional surface cleanliness. In addition, we have improved our environmental footprint and safety conditions for our workers."

Integrating GMA Garnet into long-term blasting and painting operations directly supports three critical pillars of modern industrial strategy which are operational cost control, strict quality compliance, and environmental sustainability.

If you are considering GMA for your blasting and painting services, the best advice is to shift your mindset from "cost per ton" to "total cost per square meter".

Noveen Nico Alexandra Ng (Mr) — Senior Project / Coating Engineer

Summary

Working closely with Maju Universal, and making the switch to GMA PremiumBlast Garnet™, the team achieved:

- 57% Faster project completion
- Significantly reduced abrasive waste disposal costs
- Cleaner, safer onsite conditions
- 37% less consumption
- Lower labor costs, saving 200+ hours

GMA Garnet™ helped the contractor move towards a more sustainable surface-preparation approach while maintaining high operational performance.