



Optimising Blast Performance with GMA Garnet[™]

ASIA PACIFIC | AMERICAS | EUROPE | MIDDLE EAST

gmagarnet.com

Optimising blast performance – Easy as **ABC**

These tips will allow you to attain the most efficient and effective blast operation with all GMA Garnet[™] abrasives.

A

ABRASIVE SELECTION

PremiumBlast[®] Vewsteel[®]

A1 Select garnet grade based on technical specification

✓ TIP:

• The substrate, coating type, coating thickness and required anchor profile should influence your garnet grade selection. A2) Store your garnet in a dry location for an effective blast result

✓ TIP:

 Moisture in your garnet can cause blockages in your blast pot.





BLAST EQUIPMENT



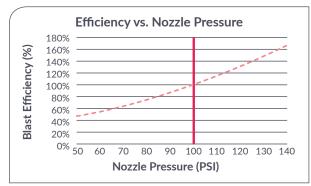
B1 Optimal pressure is instrumental to success

✓ TIP:

- Pressure at the blast nozzle should be set at a minimum of 100 psi.
- Blasting efficiency drops 1.5% for every 1 psi below 100.
- When attaching additional equipment, the compressor should be sized appropriately to maintain sufficient air pressure at every nozzle (minimum 100 psi).

MINIMUM

PRESSURE



Proper valve control ensures optimal garnet consumption

✓ TIP:

- Having the right abrasive metering valve is crucial. Avoid using a ball, flat or pancake metering valve.
- Open and close the valve by a few turns to ensure accurate metering. Test production rate by blasting on the surface.
- The right abrasive metering can help reduce garnet consumption by 25%.

³³ Use a partner to achieve optimal blast results

- ✓ TIP:
- Have a separate person adjusting the metering valve in line with the blaster's instructions.
- Hearing a chugging sound means too much abrasive is being used.
- The abrasive exiting the nozzle should be almost invisible.

Nozzle size and its condition affects blast efficiency

✓ TIP:

- Nozzle sizing should be dependent on project specification and air availability.
- A small increase in nozzle size will result in a large increase in air and abrasive consumption.
- Check for nozzle wear with a nozzle-sizing gauge prior to each shift. Replace nozzle when it is worn to 2mm of its original size.

) Blast with cool, dry compressed air

✓ TIP:

- Cool, dry compressed air blasts up to 15% faster.
- Increased moisture can increase garnet consumption by 25% or more.

*

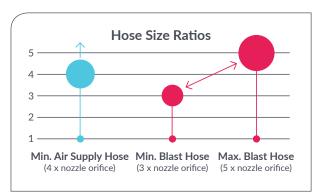




B6 Shorter air supply hose and the correct hose size will minimise pressure drops

✓ TIP:

- Minimum diameter for air supply hose
 4 times the blast nozzle orifice.
- Minimum diameter for blast hose - 3 times the blast nozzle orifice.
- Maximum diameter for blast hose
 5 times the blast nozzle orifice.





CORRECT TECHNIQUE



C1) Ensure proper standoff distance

✓ TIP:

- Approximately 18 inches (46 cm), depending on nozzle type and application.
- Stand off distance varies by circumstance and other blasting parameters.



^{c2)} Optimise nozzle angle

✓ TIP:

• The nozzle should be angled between 55° and 70° to the substrate surface.

C3 Use a consistent blast motion \sqrt{TIP} :

- Apply uniform strokes for consistent blasting.
- Allow proper overlap in blasting per application.
- Check blasted surface profile using Testex Tape with a spring micrometer or an approved digital device.

Worldwide Distribution

Offices





Worldwide Distribution

GMA Garnet[™] is used as a blast cleaning abrasive across a wide range of industries. We offer a complete range of garnet abrasives for any surface preparation requirement, from removing resistant coatings and heavy rust, to delicate restoration work. GMA AMERICAS T: +1 832 243 9300 E: info.us@gmagarnet.com

GMA ASIA PACIFIC T: +61 8 9287 3200 E: info.apac@gmagarnet.com

GMA EUROPE T: +49 (0) 40 3014 009

E: info.de@gmagarnet.de

GMA MIDDLE EAST

T: +971 4 883 7577 E: info.me@gmagarnet.com

GARNET ARABIA COMPANY

T: +9663 363 5591 E: info.sa@gmagarnet.com



Why blast with GMA Garnet?

Throughout the world, GMA Garnet[™] is recognised as the leading high performance, cost effective and safe blast abrasive for a variety of applications.



Higher Productivity Superior cleaning rate against other abrasives.



Superior Surface Finish

Exceptionally clean surface & uniform profile.



Cost Effective

Lower garnet consumption, labour, clean up and disposal cost.



Safer

Meets all industry safety and environmental standards.





T C T E



Customer Focus









more than just garnet