



How to Use Recycled Glass Abrasives

Core Blast Media (CBM) abrasive is made by Vitro Minerals from 100% recycled glass. CBM is an inert abrasive that is recommended by NIOSH as a substitute for slag and mineral abrasives. Contains no heavy metals, no free silica, and is therefore great for blasting projects where it is impractical to recover lost or spilled spent abrasive.

Crushed glass offers significant cost savings over using plastic beads, soda blast, and glass beads. Because it is more aggressive, it is able to remove corrosion and tougher coatings that other media cannot, such as thick and rubbery elastomeric coatings.

The recent introduction by Vitro Minerals of carefully graded, very clean, 40-70 and 70-100 glass abrasives has allowed increased use of dustless blasting plus replacement of significant quantities of soda blast.

Glass blasting sand is very economical, available in a variety of grit sizes, and through a wide variety of grades, can achieve all MIL Profiles.

Benefits of Glass Blast Abrasive:

- Efficiently Cleans steel, aluminum, wood, concrete, stone, fiberglass
- Glass Blast will leave a clean, bright finish to metal surfaces
- Excellent for achieving an aggressive profile for coatings, including cathodic protection and overlay performance
- Glass delivers very low particle embedment (less than 2%) which produces a whiter (SP-10) finish to the substrate.
- Lighter weight than most abrasives. Contractors report back that they use at least 25% less abrasive (some say up to 50% less) when using glass as compared to mineral slags.
- SAFE - no free silica, is chemically inert and non-toxic.
- Inert - can use it around water
- Mohs Hardness of 6.0 - similar to slags.
- Superior rust-back performance when compared with mineral/slag abrasives.
- Contains No Beryllium like mineral slags do.
- Uniform Density
- Great for thick, softer coatings because it is a lighter weight abrasive. It does not "bounce" back off the surface. It cuts it like a knife.
- Great for concrete and leaves no residue, discoloration, no ferrous impingement, etc.
- Excellent additive for seal coating operations!
- Excellent replacement for soda blasting due to its lower cost and it will not leave a PH imbalance on the substrate (which often requires a PH wash solution so that the paint will adhere). Glass will also cut through rust, and soda blast will not.
- Will not kill grass and greatly increase pH of soils like soda blast residues.
- Excellent replacement for corn cob blasting log homes as it will not embed into the wood, and thus you do not have to hand sand after blasting. (This can equate to an 80% time savings over corn cob.)
- **100% recycled post-consumer bottle glass** - It is a GREEN abrasive! 100% recycled glass.



Sizes and corresponding achievable MIL Profiles

- #10/40: Coarse. This grade will remove heavy rust, thick coatings, and barnacles. Great for concrete, structural steel, heavy tanks. MIL Profile: 3.0+ on steel surfaces
- #20/40 Medium Coarse. This blend of grades is great for light paint and rust removal in shipyards, on bridges and tanks. Great for all general blasting needs. MIL Profile: 2.5+ on steel surfaces.
- #40/70 Medium. Used on stainless steel for wet/dry blasting of light mil scale, maintenance work, graffiti and restoration. Excellent for log home blasting and auto paint stripping (we recommend a PSI at about 45-50 when blasting thinner metal such as for auto restoration), as well as other light duty work. MIL Profile: 1.0 to 2.0 on steel surfaces.
- #70/100: Fine. Great on softer metals and substrates. Excellent for etching and degreasing on aluminum, car parts and wood. Works as a good substitute for soda blasting. MIL Profile: 0.5 to 1.0 on steel surfaces.

Tips for Blasting With Glass Abrasive:

- You do NOT want a lot of abrasive in the air stream. The grains collide with themselves, lose energy, and hit your surface with less impact.
- Your goal is to not be able to see the abrasive in the air stream. If you can see it, meter back, as you have too much abrasive going through your hose.
- Start by purging your line so it is abrasive free. Then slowly open the feed until you can see the abrasive in the air stream. Then slowly close the feed until you can no longer see the abrasive in the air stream. This is what you want.
- If you have too little abrasive in the air stream, you will likely hear a high pitched whistling sound. Start over and this time repeat the process slower so you can see when the abrasive is no longer visible in the air stream. Be Stingy! You will achieve better results with a lean supply.
- Move your nozzle faster than you normally would. Glass abrasive blasts very fast, very clean. You will be surprised how light and sharp it is, and how much feathering you get with it.
- Blasting hard mil scale will require using a finer grit size, as it cuts more like a knife than a hammer. This is why it is great for softer, elastomeric coatings that often bounce back heavier abrasives.
- Blast at a 90 or 100 psi, or less. Higher pressure will be counterproductive due to how light glass abrasive is. You will simply shatter the glass rather than allow it to work for you.
- You can use a finer size than you would normally use.

Safety: CBM is made in sizes that are CARB approved for outdoor blasting as well as listed on the QPL.

Packaging: 56 Bags (2,800 lbs) on a pallet; or 3,000 lb supersacks.

Lead Time: Generally In Stock

