



Sodium Bicarbonate
PureBlast™
 Blast Media Grade



THE EFFECTIVE CHOICE FOR BLASTING

PureBlast™ is the preferred blast media. Because of the non-hazardous nature of sodium bicarbonate, Tronox PureBlast™ is an environmentally friendly option – safe for workers and users – it can be used in a wide variety of sensitive sodablasting applications. Our material is free-flowing and can be used in standard blast pots as long as the conveyance air is dry.

Sodium Bicarbonate is a softer blast media than sand, shot, or glass beads; its softer properties allow a gentler surface prep without damaging substrates. PureBlast™ low friability and frangibility properties relative to other sodablasting products enable our brand to achieve higher production/removal rates.

And while production rates can vary depending on conditions, we have some interesting results showing how well PureBlast™ compares to those other brands. See the production rates on the back of this sheet.

Concrete, Brick and Pool Cleaning Graffiti Removal	Sodablasting removes graffiti, paint, and grease, stripping dirt and grime without damage to the surface. It also removes scale, mold, and grime from pool tiles.
Food Service Applications	Removes baked on grease and dried food leaving a 99.9% bacteria free surface without any damage to the finish of chrome plated or stainless steel fixtures.
Fire/Smoke/Mold Remediation	Sodablasting mitigates smoke damage to wood, concrete, tiles, metal, etc. Bicarb cleans these damaged substrates back to their pre-fire condition while absorbing the odors in the process. PureBlast™ kills mold spores and removes mold growth from treated substrates.
Automotive Industry	Sodablasting does not produce excessive heat like other abrasive blasting media, therefore PureBlast™ does not distort or discolor metal surfaces. It will not harm glass, chrome or rubber products, yet it removes paints, fillers and rust. Blasting with PureBlast™ leaves a coating on the metal that inhibits flash rusting.
Asphalt, tar, lubricant removal and surface prep	Standard abrasive blasting is a dirty process, often loading and even embedding surfaces with contaminants (grease, oil, tar & abrasive particles) in the process of removing the coating. PureBlast™ Blast Media Grade effectively de-coats and cleans the substrate in one step, producing a level of cleanliness not seen in other blast processes.

TRONOX

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Sodium bicarbonate is soft, 2.5 on the Moh's hardness scale so it does not damage the substrate. It can be used for surface prep on softer materials like fiberglass, plastics and wood.

Media	Hardness, Mohs Scale
PureBlast™ Sodium Bicarbonate	2.5
Plastic Bead	3.5
Glass Bead	5.5
Quartz (Silica sand)	7
Copper Slag or other mineral slag	7.5
Garnet (Fe3Al2(SiO4)3)	8
Steel Shot or Grit	8
Corundum (Natural aluminum oxide)	9
Alumina (Synthetic aluminum oxide)	9

PureBlast™ has low Friability and Frangibility values indicating the crystals are less fragile and therefore less susceptible to breakage.

	% Frangibility	% Friability
PureBlast™ Sodium Bicarbonate	0.5	7
Other Bicarb Brand A	2	25
Other Bicarb Brand B	7	50

One of the most important parameters to a contractor is the production/removal rate, used to estimate the cost of a job as well as measure the productivity of personnel throughout the job. Tests were run with two paint types, results are below.

Test #	Blast Media	Paint Type	Time to blast 4'x8' (minutes)	Production rate (ft2/min)
1	Garnet	Enamel	5	7.1
2	Garnet	Epoxy	8	3.9
3	PureBlast™ Sodium Bicarbonate	Enamel	8	4.3
4	PureBlast™ Sodium Bicarbonate	Epoxy	24	1.4
7	Other Bicarb Brand B	Enamel	14	2.3
8	Other Bicarb Brand B	Epoxy	36	0.9
9	Other Bicarb Brand A	Enamel	15	2.2
10	Other Bicarb Brand A	Epoxy	24	1.4

Certifications

ISO 9001, GRAS, AWWA, NSF

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