

# ABRASIVE SPOTLIGHT: CRUSHED GLASS

## Why Crushed Glass?

### CLEAN, CRUSHED GLASS ABRASIVES

TruAbrasives™, formerly known as New Age, crushed glass abrasive is superior to other abrasives in a variety of applications, for performance, health, and environmental benefits.

- 100% recycled glass
- Non-reactive, inert
- Less than 1% free silica - silica sand contains up to 99% free silica
- White post-blast finish
- Translucent white dust for increased visibility
- QPL & CARB approved (select plants)
- SSPC AB-1 Class A, MIL-A-22262B(SH) approved
- Does not require Beryllium exposure controls, as with slags



**TRU**  
ABRASIVES™

**IDS Blast® is a  
stocking distributor  
of TruAbrasives™.**

\*As defined by OSHA Beryllium Rule for permissible exposure limits

### COMPARATIVE PERFORMANCE DATA

Abrasive Media	Dust Generation	Cleaning Rate (ft <sup>2</sup> /min)	Surface Depth (mils)	Microns (μ)
Brand Name Coal Slag	14%	1.45 (coating) 1.02 (CRS)	4.3	730μ
<b>TruAbrasives™ Crushed Glass</b>	<b>9.7%</b>	<b>1.71 (coating) 2.01 (CRS)</b>	<b>3.5</b>	<b>580μ</b>

31% less dust generated



97% higher cleaning rate

*Results were verified by an independent testing laboratory on cold rolled steel.*

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**To Request an Abrasives Quote**

**Visit the ABRASIVES section of the IDS Blast® Website.**



## LESS EXPENSIVE & MORE PLENTIFUL

Compared to naturally occurring minerals (coal, steel, garnet, etc), crushed glass is in higher supply domestically and therefore, less expensive than often more scarce supplied mineral slags.

**GRIT SIZES:** 10-40 (Coarse), 20-40 (Medium/Coarse), 40-70 (Medium), 70-100 (Fine)

**PACKAGING OPTIONS:** 50 lb & 3,000 lb bags

## SPECIFICATIONS

SPECIFIC GRAVITY		TYPICAL COMPOSITION	
<b>DENSITY</b>	2.50	<b>SiO<sub>2</sub></b>	73%
<b>HARDNESS</b>	Approx. 80 lbs/Cu Ft	<b>Na<sub>2</sub>O</b>	14%
<b>CHLORIDES</b>	Approx. 6.0 (Mohs)	<b>CaO</b>	10%
<b>EMBEDMENT AT 100 PSI</b>	<0.0002%	<b>MgO</b>	<1%
<b>SHAPE</b>	0.0% to 0.4%	<b>Al<sub>2</sub>O<sub>3</sub></b>	<1%
<b>LOI</b>	Angular to sub-angular	<b>SO<sub>3</sub></b>	<1%
<b>SOFTENING POINT</b>	0.35%		
	Approx. 1,350°F		

View the Crushed Glass Specifications sheet (found in the ABRASIVES section of the IDS Blast® Website).

## COMMON APPLICATIONS FOR CRUSHED GLASS

- ARCHITECTURAL PRECAST
- TANKS & WATER TOWERS
- BRIDGE RESTORATION & REPAIR
- AUTOMOTIVE
- WOOD, LOG HOME & BRICK

View the complete Crushed Glass Applications Guide (found in the Abrasives section of the IDS Blast® Website)

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# What is TruAbrasives™ Recycled Crushed Glass Abrasive?

TruAbrasives™ recycled crushed glass abrasive (unlike mineral slag) is a carefully engineered soda lime glass product, manufactured to rigid quality standards and at temperatures in excess of 3000° Fahrenheit. Recycled crushed glass abrasives retain all of their original properties from the manufacture of glass.

High-quality, crushed glass abrasive is free of toxic and heavy metals, deleterious levels of chlorides and conductivity, and the levels of crystalline silica are below detection, even at <0.1% by weight.

View the “Why Crushed Glass” PDF (found in the Abrasives section of the IDS Blast® Website).

## GLASS VERSUS MINERAL SLAG

When abrasive blasting with TruAbrasives™ Crushed Glass, it is possible to achieve consumption rates, cutting speeds, and white metal finishes equal to - and even superior to - those of mineral slags (Table 1).

Density and hardness are the two most critical properties of abrasives, and crushed glass compares very favorably to slags and quartz sand (Table 2).

COATED PANELS - 90 PSI			Profile	Cleaning Rate Ft <sup>2</sup> /min	Consumption Rate Lbs./Ft <sup>2</sup>	Speed Ft <sup>2</sup> /Hr	Usage		Blasting 1000 <sup>1</sup>	
Abrasive	Size	Typical APS (μ)					Lbs./Hr	Lbs./Min	Time (Hrs)	Lbs
TRUAbrasive	Coarse	907	4.1	1.52	2.6	91.2	237.1	3.95	10.96	2,600
Black Diamond	12x40	1,107	4.1	1.65	3.2	99.0	316.8	5.28	10.10	3,200
TRUAbrasive	Med-Coarse	448	3.5	1.86	2.1	111.6	234.4	3.91	8.96	2,100
Black Beauty	Fine	647	3.2	2.11	2.3	126.6	291.2	4.85	7.90	2,300
Black Diamond	20x40	602	3.2	2.08	2.9	124.8	361.9	6.03	8.01	2,900
TRUAbrasive	Coarse	907	4.1	1.52	2.6	91.2	237.1	3.95	10.96	2,600
Blast Sand	#3	1,413	4.0	1.49	1.9	89.4	169.9	2.83	11.19	1,900
TRUAbrasive	Med-Coarse	448	3.5	1.86	2.1	111.6	234.4	3.91	8.96	2,100
Blast Sand	#4	639	3.2	2.40	1.8	144.0	259.2	4.32	6.94	1,800

Table 1. Independent Test Lab Results, KTA-Tator, Inc. (2017)

## AMORPHOUS ABRASIVE PROPERTIES

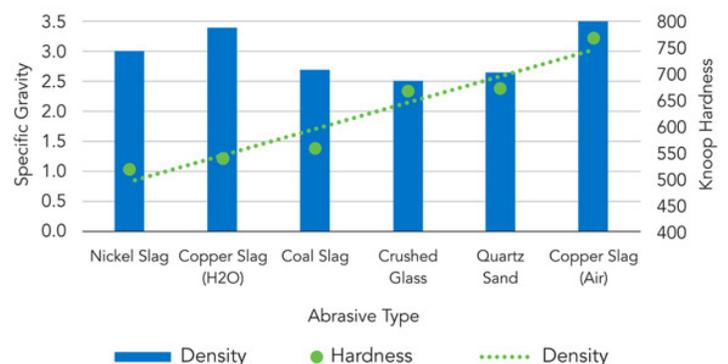


Table 2.

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## **SAFE, CLEAN ABRASIVES**

One of the most significant choices to make when selecting an abrasive is to choose an abrasive that is safe for both workers and the environment. TruAbrasives™ recycled crushed glass is a safe, clean alternative to mineral slags and silica sand.

OSHA has determined that “the best available evidence indicates that there is significant risk of Chronic Beryllium Disease (CBD) and lung cancer to workers in construction and shipyards based on the exposure levels observed” when blasting with mineral slags. Furthermore, blasting with silica sand presents the danger of silicosis, a serious and debilitating lung disease.

For years now, OSHA has encouraged employers to blast with safe alternatives to silica sand and mineral slags.

## **WORKER SAFETY**

According to a February 2018 hearing held by the House Committee on Education and the Workforce, crushed glass has been identified as a safer alternative to coal slag due to worker health risks associated with Beryllium exposure.

**View the Safety Data Sheet (found in the Abrasives section of the IDS Blast® Website).**

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# CRUSHED GLASS + VAPOR BLASTING = WIN

The dominant media of choice in vapor blasting is crushed glass (TruAbrasives™).

Wet abrasive blasting (also known as vapor abrasive blasting) removes coatings, contaminants, corrosion and residues from hard surfaces. It's similar to dry blasting, except that the blast media is moistened prior to impacting the surface.

## APPLICATIONS INCLUDE:

- **Blast Cleaning** - Dirt, mold, paint & coatings
- **Graffiti Removal** - Graffiti from building surfaces
- **Marine Maintenance** - Barnacles, biofilm, corrosion & coatings
- **Restoration** - Corrosion, grime, coatings & surface dirt
- **Surface Preparation** - Use EcoQuip 2 to prepare steel surfaces to be free of grease, dirt, dust, mill scale, rust & paint.

Get complete pricing & order information on the [IDS Blast®](#) website.



**IDS Blast® is a stocking distributor of EcoQuip Vapor Blast Equipment.**

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