

VITROGRIT™

GLASS ABRASIVE



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PRODUCT

VitroGrit™ Glass Abrasive is a clean quality, close graded, processed, crushed, recycled glass abrasive available in nine grades. Typical sieve analyses of these products are given in the following tables and gradation charts. Custom blends are available upon request.

USES AND ADVANTAGES

VitroGrit™ Glass Abrasive is suitable for a wide range of uses requiring high quality, close graded abrasives. VitroGrit™ Glass Abrasive is less than 1% free silica which is a significant factor in situations where the use of silica sandblasting abrasives is not acceptable for environmental or safety reasons. VitroGrit™ Glass Abrasive has virtually no metals compared with slags. VitroGrit™ Glass Abrasive has exceptional cutting power on most coatings and rusted surfaces. VitroGrit™ Glass Abrasive is exceptional for sandblasting aluminum, steel, concrete and wood. VitroGrit™ has less embedments than slags; cleans brighter. VitroGrit™ bulk density is considerably lighter than slags and silica sands, therefore with VitroGrit™ there is more volume per pound. VitroGrit™ delays rustback because of the alkalinity of the crushed glass.

PRODUCTS	APPLICATION
VG#16	Coarse abrasive blasting on heavy rust, barnacles and thick coatings. Excellent for concrete, structural steel, tanks, and barges, etc. Used as a blending stock for recycling blast operations. Mil profile 3.0 to 4.0 .
VG#16/30	A versatile blend of sizes. VG#16/30 works in all the above applications, with better scouring power for corners, pits, and weld seams.
VG#30	General abrasive blasting for most de-painting and rust removal jobs. Blasting concrete for aggregate exposure, shipyard work, structural steel and tanks, etc. Mil profile 2.5 to 3.0 .
VG#30/50	This blend adds speed and scouring power to VG#30.
VG#60	For smoother finishes on all types of substrates. Excellent for aluminum, stainless steel, even fiberglass. Still cuts coatings – vinyl, epoxy, and enamel – easily. Great for restoring cars, cleaning radiators and electrical motors, graffiti removal, and parts cleaning. Mil profile 1.0 to 2.0 .
VG#70	Lighter duty fine blasting on substrates requiring minimal etching or profile such as aluminum or fiberglass. Excellent for cleaning welds and bolt heads spot cleaning, and restoration work. Still aggressive enough to deliver a 1.5+ mil profile with 90-95 psi.
VG#140	Extra fine cleaning, brightening, fine honing and deburring.

Product performance is affected by many factors, including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Target's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Target's SOLE LIABILITY is to replace product proved defective. In no event shall Target be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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PHYSICAL PROPERTIES

Colour	Mixed Green/White/Amber
Grain Shape	Angular
Bulk Density	78 – 82 lb/ft ³ (1410 – 1570 kg/m ³)
Hardness, Moh	6
Specific Gravity	2.5 – 2.54
Moisture Content	<0.1% weight

SAFETY

VitroGrit™ Glass Abrasives do not contain any ingredients that require classification under WHMIS regulations. Because of the hazardous nature of abrasive blast cleaning operations and the toxicity of the dusts that can be created when removing certain coatings, all appropriate safety precautions must be followed when using VitroGrit™ Glass Abrasive or any other abrasive. Consult your local Industrial Health & Safety Regulations, NIOSH or other requirements for guidance on the required safety procedures and equipment.

PACKAGING

VitroGrit™ Glass Abrasive is available in 22.68 kg (50 lb), 36.3 kg (80 lb), and 45.3 kg (100 lb) paper bags, and in bulk bags of approximately 1,360 kg (3,000 lb). Deliveries by pneumatic tank trucks are also available.

TYPICAL CHEMICAL ANALYSIS

Chemical	Typical Value
Silicon Dioxide (SiO ₂) % wt	73
Sodium Oxide (Na ₂ O) % wt	14
Calcium Oxide (CaO) % wt	10
Magnesium Oxide (MgO) % wt.	<1
Aluminum Oxide (Al ₂ O ₃) % wt.	<1
Sulfur Trioxide (SO ₃) % wt.	<1

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TYPICAL SPECIFICATIONS – (ASTM – D-451-75): % Product Passing ASTM E11 Sieves

Sieve Size		10x14 Mesh #14	10x35 Mesh #16	10x40 Mesh #16-30	14x40 Mesh #30	14x60 Mesh #30-50	30x60 Mesh #50	40x75 Mesh #60	50x75 Mesh #70	80X140 Mesh #140
US #	MM									
10	2.00	99-100	97-100	97-100						
12	1.70	95-100	85-100	95-100						
14	1.40	75-85	70-85	85-90	97-100	97-100				
16	1.18	50-60	50-60	65-75	90-95	90-95				
18	1.00	30-35	40-60	40-50	70-80	70-75				
20	0.850	0-5	25-45	35-40	55-75	55-75				
30	0.600		3-15	15-20	30-45	30-45	95-100			
40	0.425		0-5	5-10	10-20	15-20	75-80	99-100		
50	0.300			0-2	0-2	5-10	35-70	85-92	95-100	
60	0.250					2-8	10-35	65-75	90-95	91-94
70	0.212					0-1	5-10	40-50	65-70	80-84
80	0.180									64-68
100	0.150						0-1	5-15	15-20	62-66
140	0.106									34-35
200	0.075									19-22

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TYPICAL SPECIFICATIONS – (ASTM – D-451-75): % Product Retained ASTM E11 Sieves

Sieve Size		10x14 Mesh #14	10x35 Mesh #16	10x40 Mesh #16-30	14x40 Mesh #30	14x60 Mesh #30-50	30x60 Mesh #50	40x75 Mesh #60	50x75 Mesh #70	80x140 Mesh #140
US #	mm									
10	2.00	0-1	0-3	0-3						
12	1.70	0-5	0-15	0-5						
14	1.40	10-20	12-25	10-15	0-3	0-3				
16	1.18	10-20	15-25	10-20	5-10	5-10				
18	1.00	15-30	10-20	10-20	15-25	15-20				
20	0.850	30-35	10-30	5-15	10-30	10-30				
30	0.600	0-5	20-35	10-20	15-30	15-30	0-5			
40	0.425		5-15	8-15	10-25	10-20	5-10	0-1		
50	0.300		0-5	3-8	8-15	5-10	25-60	5-15	0-5	
60	0.250			0-2	0-2	2-8	20-40	10-20	0-10	7-9
70	0.212					0-5	10-25	15-30	15-30	9-11
80	0.180									15-17
100	0.150					0-1	4-8	20-40	20-50	17-19
140	0.106						0-1	5-15	15-20	27-32
200	0.075									13-15
Pan										4-8

WASTE DISPOSAL

Before use, VitroGrit™ Glass Abrasive is not classified as a hazardous waste. During use, however, the product can become contaminated with paints or other materials that would require classification of the waste material as a hazardous or special waste. It is the responsibility of the user to undertake any necessary evaluation, classification and disposal of the material after use. Consult local authorities for information on the disposal requirements and procedures applicable to spent abrasive in your area.

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ANALYSIS REPORT RCRA TOTAL METALS

The following results are from a **NVL Laboratories, Inc** study performed on the dates shown.

Batch #96-2461
Project #1906
Location – VITROGRIT #16

	Client Sample 7/25/96 Lab ID#96100161	Client Sample 8/26/96 Lab ID#96100162	Client Sample 10/3/96 Lab ID#96100163	RCRA Total Regulatory Limit
ELEMENT	RESULTS in mg/Kg	RESULTS in mg/Kg	RESULTS in mg/Kg	mg/Kg
Arsenic (As)	<0.10	<0.10	<0.10	5.0
Barium (Ba)	<0.05	<0.05	<0.05	100.0
Cadmium (Cd)	<0.05	<0.05	<0.05	1.0
Chromium (Cr)	<0.05	<0.05	<0.05	5.0
Lead (Pb)	<0.10	<0.10	<0.10	5.0
Mercury (Hg)	<0.05	<0.05	<0.05	0.2
Silver (Ag)	<0.05	<0.05	<0.05	5.0
Selenium (Se)	<0.20	<0.20	<0.20	1.0

mg/kg = Milligrams Per Kilogram
< = Below Detection Limit

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