

SILICA ABRASIVE

PRODUCT

TARGET® Silica Abrasives are high quality, close graded silica sands which are produced at our Morinville, Alberta, plant in ten size grades. Typical gradations are presented in the following tables.

USES

TARGET Silica Abrasives are suitable for all applications requiring a high quality, clean, well graded sand. Typical uses include:

- Sandblasting of steel, concrete or wood in preparation for surface coating or repair
- Sandblasting of concrete or wood to obtain architectural effects
- Aggregate for cementitious or polymer mortars, grouts and concretes
- Foundry mold sand
- Traction sand



PHYSICAL PROPERTIES

Colour	Tan
Grain Shape	Sub-rounded
Bulk Density	92 - 95 lb/ft ³ (1474 - 1522 kg/m ³)
Hardness, Moh	6.5 - 7
Specific Gravity	2.65
Moisture Content	<0.1 % weight

PACKAGING

TARGET Silica Abrasives are available in 22.7 kg (50 lb) multi-wall paper bags, 1680 kg (3700 lb) bulk bags, or as bulk deliveries in dump trucks or pneumatic tankers.



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TYPICAL SIEVE ANALYSES

SIEVE SIZE		CUMULATIVE PERCENT PASSING								
U.S.	mm	16-30	12-40	20-40	12-50	12-50 Special	30-50	40-70	50-100	60-140
4	4.75									
8	2.36									
10	2.00	100	100		100	100				
16	1.18	95+	90-95	100	88-98	90-98				
20	0.85	15-35	65-80	90+	65-85	80-90	100	100		
30	0.60	0-7	20-45	35-55	25-45	45-65	80+	98+	100	100
40	0.425	0-2	10-25	10-20	10-25	20-30	30-45	60-80	96+	96+
50	0.300		0-2	0-3	1-5	2-10	0-10	15-30	15-35	80-90
70	0.212					0-2	0-2	1-3	1-8	65-80
80	0.180							0-1	0-2	50-70
100	0.150								0-1	35-45
140	0.106									10-20

SIEVE SIZE		INDIVIDUAL PERCENT RETAINED								
U.S.	mm	16-30	12-40	20-40	12-50	12-50 Special	30-50	40-70	50-100	60-140
4	4.75									
8	2.36									
10	2.00									
16	1.18	0-5	5-10		2-12	2-10				
20	0.85	40-65	10-25	0-10	5-25	5-15				
30	0.60	20-40	35-50	50-65	25-45	15-40	5-25	0-2		
40	0.425	5-15	20-30	20-40	15-35	20-40	40-60	20-40	0-4	0-4
50	0.300		5-15	5-15	10-20	15-30	20-35	45-65	50-90	5-15
70	0.212					2.8	0-10	15-25	10-30	10-20
80	0.180								1-5	10-20
100	0.150								0-2	15-25
140	0.106									20-35
Pan		0-1	0-2	0-2	0-3	0-2	0-2	1-3	0-1	5-15

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SILICA ABRASIVE

TYPICAL CHEMICAL ANALYSIS

Chemical Oxide	% weight	Typical Value
Silica	SiO ₂	93.2 - 93.6
Alumina	Al ₂ O ₃	3.6 - 4.6
Iron	Fe ₂ O ₃	0.30 - 0.35
Calcium	CaO	0.25 - 0.65
Magnesium	MgO	0.08 - 0.15
Sodium	Na ₂ O	0.75 - 0.85
Titanium	TiO ₂	0.1 maximum
Loss on Ignition		0.3 maximum

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