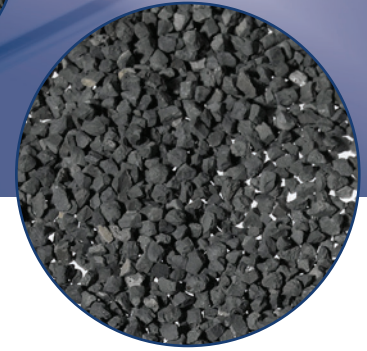
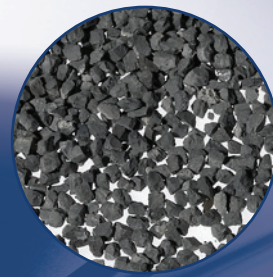
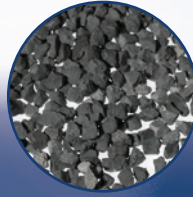


ZS[®] ALUNDUM[®]



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DESCRIPTION

ZS[®] ALUNDUM[®] is a proprietary, cast, fused alumina zirconia abrasive produced by St. Gobain Grains & Powders. It is a dense, exceedingly tough abrasive with very fine crystal size, due to the quick cooling it receives in St. Gobain's unique casting process. It has a very blocky shape with rounded, mullered edges.

APPLICATIONS

ZS[®] ALUNDUM[®] is a remarkably tough abrasive with maximum impact resistance, and is used principally in large hot pressed resin bonded steel conditioning wheels.

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	75.00%
ZrO ₂	23.00%
TiO ₂	0.10%
SiO ₂	0.30%
Fe ₂ O ₃	0.30%
Na ₂ O	0.08%
CaO	0.10%
MgO	0.03%
S	0.06%

TYPICAL PHYSICAL PROPERTIES

Color	Gray
True Density	4.30 gms/cc
Knoop100 Hardness	1450
Melting Point	1950° C
Crystal Size	17 microns
Loose Pack Density	2.23 – 2.44 g/cc
Grading	modified ANSI

TYPICAL LOOSE PACK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
4	Record	10	2.420 – 2.530	16	2.315 – 2.425	30	2.230 – 2.340
6	Record	12	2.385 – 2.495	20	2.285 – 2.395	36	Record
8	2.300 – 2.440	14	2.350 – 2.460	24	2.250 – 2.360		

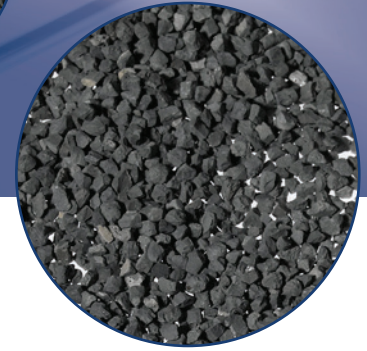
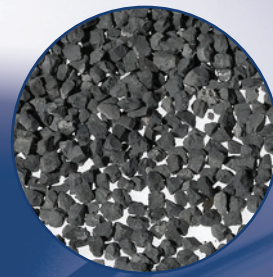
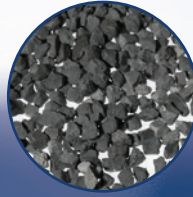
GRAIN SIZES AVAILABLE

4, 6, 8, 10, 12, 14, 16, 20, 24, 30, and 36

Specialty sizes available upon request

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ZS® ALUNDUM® (PG. 2)



SIEVE ANALYSES

ZS® ALUNDUM® abrasive is produced according to procedure described in ANSI B.74. 12-2001 i.e. 100 gram sample sieved for five minutes on a Rotap using U.S. Standard brass sieves with St. Gobain modified ANSI limits as follows:

Size	U.S. Standard sieves/limits				
4	$\frac{+5/16''}{0}$	$\frac{+3}{5-15}$	$\frac{+4}{30+}$	$\frac{+4+5}{60+}$	$\frac{-6}{0-5}$
6	$\frac{+3\ 1/2}{0}$	$\frac{+5}{15-30}$	$\frac{+6}{35+}$	$\frac{+6+7}{55+}$	$\frac{-8}{0-3}$
8	$\frac{+4}{0}$	$\frac{+6}{9-24}$	$\frac{+7}{30+}$	$\frac{+7+8}{65+}$	$\frac{-10}{0-3}$
10	$\frac{+5}{0}$	$\frac{+7}{2-17}$	$\frac{+8}{20+}$	$\frac{+8+10}{60+}$	$\frac{-12}{0-3}$
12	$\frac{+6}{0}$	$\frac{+8}{2-17}$	$\frac{+10}{20+}$	$\frac{+10+12}{60+}$	$\frac{-14}{0-5}$
14	$\frac{+8}{0}$	$\frac{+12}{20-40}$	$\frac{+14}{35+}$	$\frac{+14+16}{60+}$	$\frac{-18}{0-5}$
16	$\frac{+10}{0}$	$\frac{+14}{5-25}$	$\frac{+16}{30+}$	$\frac{+16+18}{60+}$	$\frac{-20}{0-5}$
20	$\frac{+12}{0}$	$\frac{+16}{0-20}$	$\frac{+18}{25+}$	$\frac{+18+20}{60+}$	$\frac{-25}{0-10}$
24	$\frac{+16}{0}$	$\frac{+20}{0-25}$	$\frac{+25}{45+}$	$\frac{+25+30}{65+}$	$\frac{-35}{0-3}$
30	$\frac{+18}{0}$	$\frac{+25}{0-25}$	$\frac{+30}{45+}$	$\frac{+30+35}{65+}$	$\frac{-40}{0-3}$
36	$\frac{+20}{0}$	$\frac{+30}{0-25}$	$\frac{+35}{45+}$	$\frac{+35+45}{65+}$	$\frac{-45}{0-3}$

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