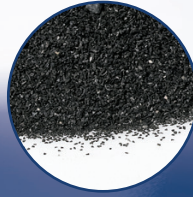


DURALUM® ATZ II C



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DESCRIPTION

DURALUM® ATZ II C is a new tough, hard alumina zirconia material developed for use by coated manufacturers in applications where extended product life and improved cutting ability is required. DURALUM® ATZ II C is produced by fusing zirconia and alumina above 2000° C and chill casting it in a proprietary process. DURALUM® ATZ II C is a unique abrasive. It cuts aggressively, lasts up to six times longer, and exhibits more uniform wear than conventional abrasives.

APPLICATIONS

DURALUM® ATZ II C is used in coated abrasives for heavy duty grinding of virtually all types of metals as well as planing of some types of woods. Specific applications include discs and resin bonded coated abrasive belts.

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	54 – 60%
ZrO ₂	39 – 41%
TiO ₂	1.00 – 2.00%
Y ₂ O ₃	.6 – .8%

GRAIN SIZES AVAILABLE

16, 20, 24, 30, 36, 40, 50, 60, 80, 100, 120, 150, 180, and 220

TYPICAL PHYSICAL PROPERTIES

Crystal Size	10 – 12 microns
Color	Dark Gray
Specific Gravity	4.5
Vickers Hardness	19 GPA for 50 gram load
pH Value	7
Melting Point	1900° C
Grading	Washington Mills Standard
Particle Shape	Sharp shaped
Bulk Density	ANSI B74.4 – 1992 (R2007)

TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
16	2.07 – 2.22	36	1.95 - 2.10	80	1.82 – 1.97	180	1.77 - 1.92
20	2.07 – 2.22	40	1.90 - 2.05	100	1.77 – 1.92	220	1.75 – 1.90
24	2.01 – 2.16	50	1.82 – 1.97	120	1.77 – 1.92		
30	2.01 – 2.16	60	1.80 – 1.95	150	1.77 – 1.92		

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DURALUM® ATZ II C (PG.2)

DURALUM® ATZ II C FOR COATED ABRASIVE APPLICATIONS MODIFIED FEPA "P" SIZING

Size	Oversize	Control Screen Coarse Grain	First Nominal	Second Nominal	Third Nominal	Fine Grains
20P	$\frac{+12}{0}$	$\frac{+16}{0-7}$	$\frac{+16+18}{34-50}$	$\frac{+16+18+20}{80-92}$	$\frac{+16+18+20+25}{96+}$	$\frac{-25}{0-4}$
24P	$\frac{+14}{0}$	$\frac{+18}{0-1}$	$\frac{+18+20}{10-18}$	$\frac{+18+20+25}{52-70}$	$\frac{+18+20+25+30}{92+}$	$\frac{-30}{0-8}$
30P	$\frac{+16}{0}$	$\frac{+20}{0-1}$	$\frac{+20+25}{10-18}$	$\frac{+20+25+30}{52-70}$	$\frac{+20+25+30+35}{92+}$	$\frac{-35}{0-8}$
36	$\frac{+18}{0}$	$\frac{+25}{0-1}$	$\frac{+25+30}{14-28}$	$\frac{+25+30+35}{56-76}$	$\frac{+25+30+35+40}{90+}$	$\frac{-40}{0-10}$
40	$\frac{+25}{0}$	$\frac{+35}{4-15}$	$\frac{+35+40}{48-73}$	$\frac{+35+40+45}{85-97}$	$\frac{+35+40+45+50}{95+}$	$\frac{-50}{0-5}$
50	$\frac{+30}{0}$	$\frac{+40}{3-10}$	$\frac{+40+45}{36-52}$	$\frac{+40+45+50}{80-92}$	$\frac{+40+45+50+60}{94+}$	$\frac{-60}{0-6}$
60	$\frac{+35}{0}$	$\frac{+45}{0-7}$	$\frac{+45+50}{15-35}$	$\frac{+45+50+60}{56-74}$	$\frac{+45+50+60+70}{92+}$	$\frac{-70}{0-8}$
80	$\frac{+45}{0}$	$\frac{+60}{0-7}$	$\frac{+60+70}{15-35}$	$\frac{+60+70+80}{56-74}$	$\frac{+60+70+80+100}{92+}$	$\frac{-100}{0-8}$
100P	$\frac{+50}{0}$	$\frac{+70}{0-1}$	$\frac{+70+80}{10-18}$	$\frac{+70+80+100}{52-70}$	$\frac{+70+80+100+120}{92+}$	$\frac{-120}{0-8}$
120P	$\frac{+70}{0}$	$\frac{+100}{0-7}$	$\frac{+100+120}{34-50}$	$\frac{+100+120+140}{80-92}$	$\frac{+100+120+140+170}{96+}$	$\frac{-170}{0-4}$
150P	$\frac{+80}{0}$	$\frac{+120}{0-3}$	$\frac{+120+140}{20-32}$	$\frac{+120+140+170}{66-84}$	$\frac{+120+140+170+200}{96+}$	$\frac{-200}{0-4}$
180P	$\frac{+100}{0}$	$\frac{+140}{0-2}$	$\frac{+140+170}{10-20}$	$\frac{+140+170+200}{50-74}$	$\frac{+140+170+200+230}{90+}$	$\frac{-230}{0-10}$
220P	$\frac{+120}{0}$	$\frac{+170}{0-2}$	$\frac{+170+200}{10-20}$	$\frac{+170+200+230}{50-74}$	$\frac{+170+200+230+270}{90+}$	$\frac{-270}{0-10}$

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