

# DURALUM® SW CA (ANSI GRADED)

# DURALUM® SW CP (FEPA "P" GRADED)



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## DESCRIPTION

DURALUM® SW CA and DURALUM® SW CP are pure, clear white aluminum oxides. DURALUM® SW C is the most friable aluminum oxide. Due to its high purity and large crystal size, the crystals of DURALUM® SW C fracture comparatively swiftly, constantly exposing fresh cutting crystals to the work piece.

## APPLICATIONS

DURALUM® SW CA and DURALUM® SW CP are used in the grinding of heat sensitive alloys, taking advantage of its friability and cool cutting ability. They are widely used in precision finishing of wood, leather, rubber, glass, etc.

## TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub> (by difference)	99.76%
SiO <sub>2</sub>	0.02%
Fe <sub>2</sub> O <sub>3</sub>	0.02%
Na <sub>2</sub> O	0.20%

## GRAIN SIZES AVAILABLE

12, 14, 16, 20, 24, 30, 36, 40, 50, 60, 70, 80, 90, 100, 120, 150, 180, and 220

## POWDER SIZES AVAILABLE

240, 280, 320, 400, 500, 600, 800, 1000, F, FF, and FFF

## TYPICAL PHYSICAL PROPERTIES

Crystallography	Alpha alumina, in the hexagonal crystal system
Color	White
Average Crystal Size	2,500 microns, no matrix
Porosity: Total Volume	5.5%
Specific Gravity	3.96
Knoop <sub>100</sub> Hardness	2150
Shape	Angular, with sharp edges
Grading (Grain)	ANSI B74.18-2006 OR FEPA 42-1:2006
Bulk Density (Grain)	ANSI B74.4-1992 (R2007)

## TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
12	1.70 – 1.79	30	1.74 – 1.83	70	1.66 – 1.75	150	1.56 – 1.64
14	1.71 – 1.80	36	1.74 – 1.83	80	1.64 – 1.73	180	1.53 – 1.61
16	1.72 – 1.81	40	1.74 – 1.83	90	1.62 – 1.71	220	1.50 – 1.58
20	1.73 – 1.82	50	1.71 – 1.80	100	1.60 – 1.68		
24	1.74 – 1.83	60	1.68 – 1.77	120	1.58 – 1.66		

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