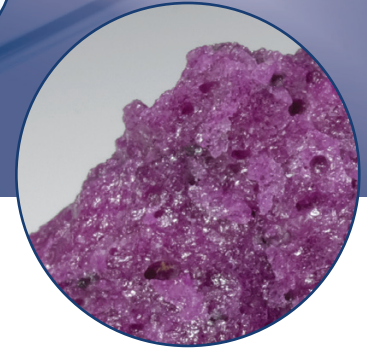


# DURALUM® CR3



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## DESCRIPTION

DURALUM® CR3 is a pure, fused aluminum oxide, alloyed with chrome oxide to make it deep pink in color. Although DURALUM® CR3 is friable and cool cutting, it exhibits marked form-holding characteristics. It is more durable than white aluminum oxide.

## APPLICATIONS

DURALUM® CR3 finds its greatest application in precision, broad surface, and tool room grinding on hard alloy steels.

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## TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub> (by difference)	99.40%
Cr <sub>2</sub> O <sub>3</sub>	0.30%
SiO <sub>2</sub>	0.05%
Fe <sub>2</sub> O <sub>3</sub>	0.03%
Na <sub>2</sub> O	0.20%
CaO	0.02%

## GRAIN SIZES AVAILABLE

8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, and 220

*Additional sizes available upon request*

## TYPICAL PHYSICAL PROPERTIES

Crystallography	Alpha alumina with chrome oxide
Color	Pink
Specific Gravity	3.96
Knoop <sub>100</sub> Hardness	2150
Shape	Blocky, with multiple sharp edges
Average crystal size	750 microns
Grading	ANSI B74.12-2001, Table 2 OR FEPA 42-1:2006
Bulk Density	ANSI B74.4-1992(R2007)

## TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc
20	1.64 – 1.74	54	1.64 – 1.74	100	1.48 – 1.58
24	1.65 – 1.75	60	1.63 – 1.73	120	1.45 – 1.55
30	1.65 – 1.75	70	1.59 – 1.69	150	1.42 – 1.52
36	1.65 – 1.75	80	1.54 – 1.64	180	1.37 – 1.49
46	1.65 – 1.75	90	1.52 – 1.62	220	1.35 – 1.45

This product information is NOT a specification. It is offered in good faith only as a general description of the product. **Washington Mills makes no warranty of merchantability or of fitness for any particular purpose.** The product chemistry and other characteristics may vary or contain trace elements not specifically listed. If your intended application for this product is so critical that relatively minor variations in chemistry or physical properties could cause problems or damage to your process or product, please contact our office for further assistance.