

# DURALUM® DR

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## DESCRIPTION

DURALUM® DR is a chromium, ruby colored, fused aluminum oxide, that is free of titania. It is made by fusing high purity calcined alumina and chromium oxide. It is a friable abrasive, but due to the chromium addition, it is somewhat tougher than white aluminum oxide. It has marked corner-holding characteristics and is excellent for precision grinding.

## APPLICATIONS

DURALUM® DR finds its greatest application in precision grinding.

## TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub> (by difference)	97.40%
Cr <sub>2</sub> O <sub>3</sub>	2.10%
SiO <sub>2</sub>	0.01%
Fe <sub>2</sub> O <sub>3</sub>	0.08%
Na <sub>2</sub> O	0.26%
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

## TYPICAL PHYSICAL PROPERTIES

Crystallography	Alpha alumina with chrome oxide
Color	Dark Red
Specific Gravity	3.94
Knoop <sub>100</sub> Hardness	2150
Shape	Blocky, with sharp edges
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
8	1.80 – 1.90	30	1.72 – 1.82	90	1.55 – 1.65
10	1.79 – 1.89	36	1.71 – 1.81	100	1.52 – 1.62
12	1.78 – 1.88	46	1.69 – 1.79	120	1.49 – 1.59
14	1.77 – 1.87	54	1.67 – 1.77	150	1.46 – 1.56
16	1.75 – 1.85	60	1.65 – 1.75	180	1.43 – 1.53
20	1.74 – 1.84	70	1.62 – 1.72	220	1.37 – 1.47
24	1.73 – 1.83	80	1.59 – 1.69		

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