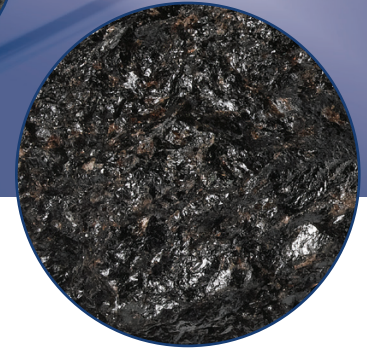
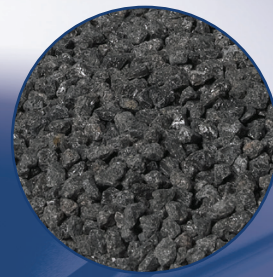
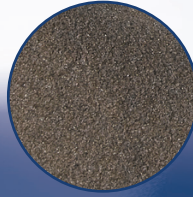


# DURALUM® HBD



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## DESCRIPTION

DURALUM® HBD is a medium titania, blocky shaped, high density, fused brown aluminum oxide abrasive for use in bonded abrasive products where a very tough, mulled, aluminum oxide is required.

## APPLICATIONS

DURALUM® HBD is extensively used in heavy-duty grinding, double disc grinding, and cylindrical grinding. It is suitable for both resinoid and vitrified wheels.

## TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub> (by difference)	96.12%
TiO <sub>2</sub>	2.70%
SiO <sub>2</sub>	0.67%
Fe <sub>2</sub> O <sub>3</sub>	0.11%
Other Oxides	0.40%

## 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, in the hexagonal crystal system
Color	Brown
Specific Gravity	3.92
Knoop <sub>100</sub> Hardness	2090
Shape	Blocky, with heavy mulled edges
Grading	ANSI B74.12-2001, Table 2 OR FEPA 42-1:2006
Magnetics	ANSI B74.19-2002 (R2007)
Bulk Density	ANSI B74.4-1992 (R2007)

## TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
8	2.15 – 2.25	20	2.02 – 2.12	54	1.96 – 2.06	100	1.86 – 1.96
10	2.12 – 2.22	24	2.02 – 2.12	60	1.96 – 2.06	120	1.84 – 1.94
12	2.08 – 2.18	30	2.00 – 2.10	70	1.95 – 2.05	150	1.82 – 1.92
14	2.06 – 2.16	36	1.98 – 2.08	80	1.87 – 1.97	180	1.80 – 1.90
16	2.04 – 2.14	46	1.96 – 2.06	90	1.86 – 1.96		

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.