

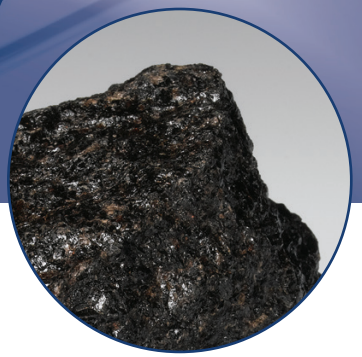

DURALUM® GW

General Inquiries
North & South America
Tel: 1-800-828-1666
Europe
Tel: +44(0)161-848-0271
info@washingtonmills.com
www.washingtonmills.com

Washington Mills
North Grafton, Inc.
P.O Box 428
20 North Main Street
North Grafton, MA 01536
Tel: 508-839-6511
Fax: 508-839-7675
Email: info@washingtonmills.com

Washington Mills
Electro Minerals Corp.
P.O Box 423
1801 Buffalo Avenue
Niagara Falls, NY 14302
Tel: 716-278-6600
Fax: 716-278-6650
Email: info@washingtonmills.com

Washington Mills
Electro Minerals Corp.
P.O Box 1002
7780 Stanley Avenue
Niagara Falls, Ontario L2E 6V9 Canada
Email: info@washingtonmills.com

Washington Mills
Tonawanda, Inc.
1000 E. Niagara Street
Tonawanda, NY 14150
Email: info@washingtonmills.com

Washington Mills
Electro Minerals Ltd.
Mosley Road, Trafford Park
Manchester M17 1NR England
Email: info@washingtonmills.com

Washington Mills Hennepin, Inc.
13230 Prairie Industrial Parkway
Hennepin, IL 61327
Email: info@washingtonmills.com

Washington Mills AS
NO-7300
Orkanger, Norway
Email: wmas@washingtonmills.no

DESCRIPTION

DURALUM® GW is a medium titania, blocky shape, medium density, fused brown aluminum oxide abrasive for use in bonded abrasive products where a tough, strong, aluminum oxide is required.

APPLICATIONS

DURALUM® GW is the most versatile and widely used, medium density fused aluminum oxide available. It is produced in a complete range of grit sizes for grinding wheel manufacturing, easily formulated for use in all vitrified and organically bonded abrasive products. DURALUM® GW is also available with a ceramic iron oxide coating (DURALUM® REDKOTE) or a silane surface treatment (DURALUM® SILKOTE).

TYPICAL CHEMICAL ANALYSIS

Al_2O_3 (by difference)	96.12%
TiO_2	2.70%
SiO_2	0.67%
Fe_2O_3	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

POWDER SIZES AVAILABLE

240, 280, 320, 400, 500, 600, 800, 1000, 1200, F, FF, FFF

Specialty sizes available upon request

TYPICAL PHYSICAL PROPERTIES

Crystallography	Alpha alumina, in the hexagonal crystal system
Color	Brown
Specific Gravity	3.92
$Knoop_{100}$ Hardness	2090
Shape	Blocky, with sharp edges
Grading (Grain)	ANSI B74.12-2001, Table 2 OR FEPA 42-1:2006
Grading (Powder)	ANSI B74.10-2001 OR FEPA 42-2:2006
Magnetics	ANSI B74.19-2002 (R2007)
Bulk Density (Grain)	ANSI B74.4-1992 (R2007)

TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
6	2.12 – 2.22	**20**	1.94 – 2.04	**60**	1.79 – 1.89	**150**	1.69 – 1.79
8	2.09 – 2.19	**24**	1.91 – 2.01	**70**	1.76 – 1.86	**180**	1.68 – 1.78
10	2.08 – 2.18	**30**	1.88 – 1.98	**80**	1.72 – 1.82	**220**	1.63 – 1.73
12	2.04 – 2.14	**36**	1.82 – 1.92	**90**	1.72 – 1.82		
14	2.01 – 2.11	**46**	1.80 – 1.90	**100**	1.72 – 1.82		
16	1.98 – 2.08	**54**	1.79 – 1.89	**120**	1.70 – 1.80		

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