

DURALUM® ATZ II R



General Inquiries

North & South America

Tel: 1-800-828-1666

Europe

Tel: +44(0)161-848-0271

info@washingtomills.com

www.washingtomills.com

DESCRIPTION

DURALUM® ATZ II R is a new cast, dense, fused alumina - zirconia refractory grain. DURALUM ATZ II R is produced by fusing zirconia and alumina above 2000° C and chill casting it in a proprietary process specially developed and patented by Washington Mills.

DURALUM® ATZ II R is a unique material. It is characterized by a higher percentage of cubic zirconia evenly distributed throughout the individual grains.

APPLICATIONS

DURALUM® ATZ II R is recommended for refractories that require a high resistance to environmental corrosion and a low coefficient of thermal expansion. Applications include slide gates, glass tank refractories, and other applications requiring resistance to molten slags.

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@washingtomills.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@washingtomills.com

Washington Mills

Electro Minerals Corp.

P.O Box 1002

7780 Stanley Avenue

Niagara Falls, Ontario L2E 6V9 Canada

Email: info@washingtomills.com

Washington Mills

Tonawanda, Inc.

1000 E. Niagara Street

Tonawanda, NY 14150

Email: info@washingtomills.com

Washington Mills

Electro Minerals Ltd.

Mosley Road, Trafford Park

Manchester M17 1NR England

Email: info@washingtomills.com

Washington Mills Hennepin, Inc.

13230 Prairie Industrial Parkway

Hennepin, IL 61327

Email: info@washingtomills.com

Washington Mills AS

NO-7300

Orkanger, Norway

Email: wmas@washingtomills.no

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃ (by difference)	59 - 60%
ZrO ₂	39 - 40%
TiO ₂	0.15 - 0.30%
Y ₂ O ₃	0.6 - 0.8%

TYPICAL PHYSICAL PROPERTIES

Crystal Size	10 - 12 microns
Color	Dark Gray
Specific Gravity	4.5
Knoop ₁₀₀ Hardness	1700
Melting Point	1900° C
Grading	Washington Mills Standard
Magnetics	ANSI B74.19-2002
Bulk Density	ANSI B74.4-1992 (R2002)

TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
6	2.25 - 2.35	14	2.16 - 2.28	30	2.04 - 2.15	60	1.85 - 1.95	120	1.80 - 1.90
8	2.22 - 2.33	16	2.12 - 2.24	36	1.98 - 2.09	80	1.83 - 1.93	150	1.80 - 1.90
10	2.21 - 2.32	20	2.10 - 2.22	46	1.93 - 2.03	90	1.81 - 1.91	180	1.75 - 1.85
12	2.18 - 2.31	24	2.08 - 2.21	54	1.87 - 1.97	100	1.80 - 1.90	220	1.75 - 1.85

GRAIN SIZES AVAILABLE

Refractory Splits: contact sales for available sizes

Individual Grits: 6, 8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 100, 120, 150, 180, and 220

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.

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