

ZIRCON SPECIFICATIONS

TYPICAL CHEMICAL ANALYSIS – Zircon Sand, Flour: 325 mesh, 200 mesh, 400 mesh, 600 mesh

Zircon Content	96.7% min.
ZrO ₂	65.0% min.
SiO ₂ (total)	33.02% max.
Free SiO ₂	0.20% max.
TiO ₂	0.35% max
Fe ₂ O ₃	0.05% max.
Al ₂ O ₃	2.0% max.
Zn	400 ppm max

FLOUR PARTICLE SIZE SPECIFICATIONS

	200 M	325 M	400 M	600 M
10%	1.6-3.8	1.6-3.1	1.6-3.1	1.5-2.9
50%	16-26	10-16	10-16	9.0-13.0
90%	47-74	32-47	29-43	23.0-38.0
MV	19-34	13-24	12.5-19.5	11.0-17.0
Sd	16-28	11.5-18.5	10.5-17.5	9.0-14.0

SAND PARTICLE SIZE SPECIFICATIONS

AFS 96 - AFS 111

TYPICAL PHYSICAL PROPERTIES

Specific Gravity:	4.5-4.8
Hardness:	7.5-8.0 Moh
Liquid Temperature:	>4000°F
Thermal Expansion (linear):	1.4x10 ⁻⁶ /°F
Thermal Conductivity:	14.5 BTU/ft ² /hr/°F/inch
Source:	Florida

Origin Date: Replaces November 3, 2006
Revision Date: September 3, 2009



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DENSPLY

EUROPEAN AGENT:

HTM Tradeco Ltd.
Phone: 208/4434323 (UK)
Fax: 208/8040127 (UK)
htmtradecoltd@aol.com

Ransom & Randolph

3535 Briarfield Blvd.
Maumee, OH 43537 USA
USA Phone: (800)800-7496
Phone: (419)865-9497
FAX: (419)865-9997
www.ransom-randolph.com