

Marketech International, Inc.

107B Louisa Street • Port Townsend, WA 98368
Phn: 360 379 6707- Fax: 360 379 6907
Email: info@mkt-intl.com
Web: www.mkt-intl.com

TECHNICAL DATA

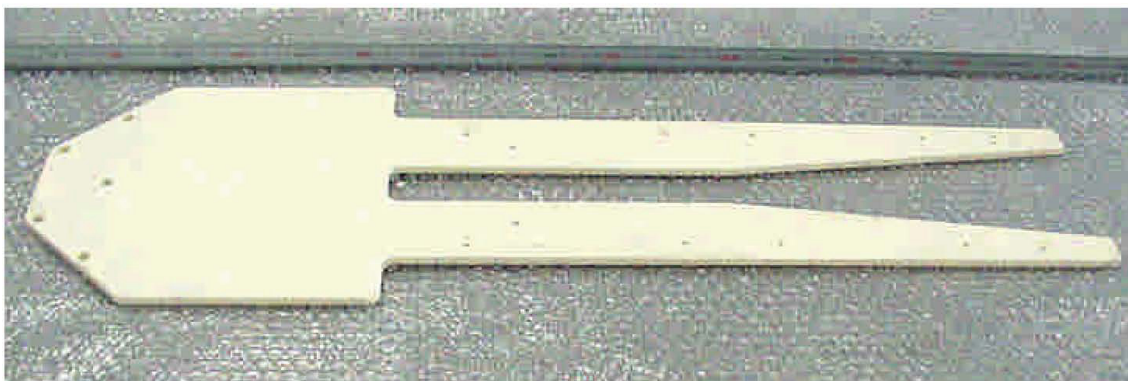
LARGE CERAMIC COMPONENTS FOR SEMICONDUCTOR PROCESS EQUIPMENT and CERAMIC END EFFECTORS

REPTON GELCAST Ceramics are manufactured using a proprietary technology that has recently been enhanced to produce large ceramic shapes with improved volume and shape stability during manufacture. Being able to cast near net size shapes permits the economic fabrication of large ceramic parts for the semiconductor production equipment with reduced amounts of expensive diamond machining.

REPTON is available in several standard grades of 99.6% **alumina** and special a special semiconductor/electronic grade with a purity of 99.99%. REPTON is available in over 20 other compositions including mullite and zirconium oxide.



**Large REPTON Alumina Plates
48" X 24" X 0.5" (1200 X 600 X 12 mm)**



Machined Alumina Shape - 34" Long (850 mm)

REPTON COMPOSITIONS (others available)

Brand	Composition	Density G/cm ³	Porosity %	Bending Strength MPa
006	AlOx –99.99%	3.9	0	>400
136	AlOx – 99.6%	3.9	0	>392
848	Zirconia/Yt 3 mol%	6.1	0	>1050
663	80/20 Alox+Mullite	2.4	29	>25

SPECIAL LARGE CAST SHAPES



Alumina Vacuum Chamber
14" dia. X 24" high



Process Chamber Flange
18" dia x 20" high

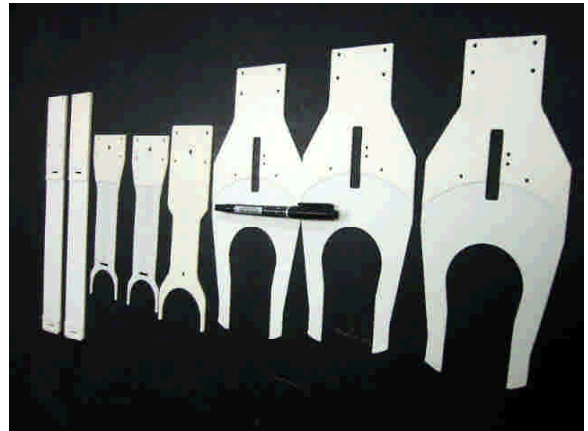


Custom Alumina Cast Component



Rectangular Alumina Process Chamber

Ceramic End Effectors

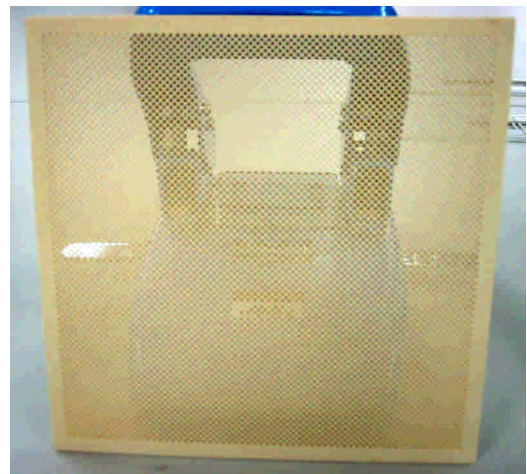


Vacuum and non-vacuum End Effectors for wafers up to 300 mm

Custom Machined Parts



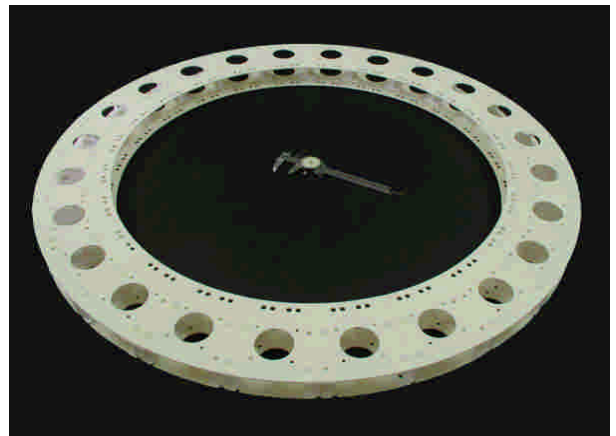
Alumina Wafer Carriers



Patterned Screen Plate 8" x 8"



Alumina Insulators



Alumina Ring For NIST - 37" dia.

Cast Components



Large Flat Plates

