



CHEMSHUN CERAMICS--- Wear Resistant Ceramics (92% Al₂O₃, 95% Al₂O₃, ZTA)

| Properties | Unit | 92 Al ₂ O ₃ | 95 Al ₂ O ₃ | ZTA |
|---------------------------------------|----------------------|-----------------------------------|-----------------------------------|-------|
| Al ₂ O ₃ | % | 92 | 95 | 70-80 |
| ZrO ₂ | % | 0 | 0 | 20-30 |
| Density | g/cm ³ | >3.60 | >3.65 | >4.1 |
| Water Absorption | % | 0 | 0 | 0 |
| Flexural Strength | Mpa | 300 | 300 | 515 |
| Rockwell Hardness | HRA | 85 | 88 | 90 |
| Vickers Hardness (HV10) | Kg/mm ² | 1100 | 1150 | >1300 |
| Fracture Toughness | Mpa.M ^{1/2} | 3-4 | 3-4 | 5.5 |
| Abrasion loss (on the same condition) | Cm ³ | <0.05 | <0.05 | <0.02 |
| Maximum Operation Temperature | °C | 1450 | 1500 | 1600 |

Pingxiang Chemshun Ceramics Co.,Ltd

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Address: Non-metal area of shangliuyuan, Economic developmentzone,
pingxiang city, Jiangxi province, P.R.China.
Website: www.chemshun.com www.chemshun-es.com