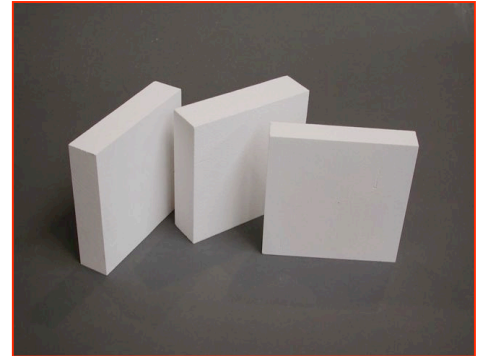


## ALURATH M70 Pressed Mullite Bricks and Plates

**ALURATH** mullite based pressed formulations offer high density, low porosity, good hot strength and good sag resistance. These grades are specified for high temperature, high load applications. **ALURATH** is available in many brick and plate sizes as well as custom shapes.



| Properties  |                      | Units             | ALURATH GRADE |       |         |           |
|---|----------------------|-------------------|---------------|-------|---------|-----------|
|   |                      |                   | M701          | M702  | M703    | M704      |
| Density   | lbs/ft <sup>3</sup>  | 162               | 153           | 162   | 156     |           |
|   | (g/cm <sup>3</sup> ) | (2.6)             | (2.45)        | (2.6) | (2.5)   |           |
| Apparent Porosity                                       | %                    | 15%               | 18.5          | 17    | 18      |           |
| Cold Crushing Strength                                  | Kpsi                 | 18.8              | 11.6          | 11.6  | 6.6     |           |
|   | MPa                  | 130               | 80            | 80    | 45      |           |
| Refractoriness under load, DIN 51053 ta °F              | °F                   | > 2912            | TBD           | TBD   | > 2912  |           |
| Creep<br>Load 0.2Mpa (28.4Psi)<br>Temp. 1500°C (2732°F) | e25[%]               | TBD               | TBD           | TBD   | 0.18    |           |
|   | s25-15[%]            |                   |               |       | 0.01    |           |
| Thermal Shock Resistance DIN51068-1 Quench with water   | Cycles               | 6                 | 11            | 14    | > 100   |           |
| Hot Flexural Strength                                   | Psi(MPa)             |                   |               |       |         |           |
|   |                      | @ 1200°C (2192°F) | 3350 (23)     | TBD   | TBD     | 2180 (15) |
|   |                      | @ 1400°C (2552°F) | 1600 (11)     |       |         | 1165 (8)  |
| @ 1500°C (2732°F)                                       |                      |                   |               |       | 870 (6) |           |