

## MULLITE BRICKS / MATTONI MULLITICI / BRIQUES DE MULLITE / MULLITSTEINE

| BRAND NAME | CHEMICAL ANALYSIS %                |      | MAIN COMPONENTS   | BD g/cm <sup>3</sup> | AP % | CCS MPa | PLC °C % |   | LTE °C % |     | RUL (T0,5) °C | TC W/mK         | NOTE            |
|------------|------------------------------------|------|-------------------|----------------------|------|---------|----------|---|----------|-----|---------------|-----------------|-----------------|
| MU 270     | Al <sub>2</sub> O <sub>3</sub>     | 70,0 | Synthetic Mullite | 2,45                 | 20   | 50      | 1450     | 0 | 1450     | 0,8 | 1550          | 1,96 (1200°C)   |                 |
|            | Fe <sub>2</sub> O <sub>3</sub>     | 1,2  |                   |                      |      |         |          |   |          |     |               |                 |                 |
| MU 620     | Al <sub>2</sub> O <sub>3</sub>     | 70,0 | Synthetic Mullite | 2,50                 | 16,5 | 70      | 1550     | 0 | 1550     | 0,9 | 1600          | 1,7-0,00015T °C |                 |
|            | Fe <sub>2</sub> O <sub>3</sub>     | 0,4  |                   |                      |      |         |          |   |          |     |               |                 |                 |
| MU 70 FFP  | Al <sub>2</sub> O <sub>3</sub>     | 72,0 | Synthetic Mullite | 2,58                 | 15,5 | 120     | 1500     | 0 | 1500     | 0,9 | 1650          | 2,2 (1000°C)    |                 |
|            | Fe <sub>2</sub> O <sub>3</sub>     | 0,3  |                   |                      |      |         |          |   |          |     |               |                 |                 |
|            | TiO <sub>2</sub>                   | 0,2  |                   |                      |      |         |          |   |          |     |               |                 |                 |
| MU 72 AT   | Al <sub>2</sub> O <sub>3</sub>     | 72,0 | Synthetic Mullite | 2,55                 | 16   | 70      | 1600     | 0 | 1600     | 1,0 | 1630          | 1,7-0,00017T °C |                 |
|            | Fe <sub>2</sub> O <sub>3</sub>     | 0,2  |                   |                      |      |         |          |   |          |     |               |                 |                 |
| MU 85 FFV  | Al <sub>2</sub> O <sub>3</sub>     | 88,0 | White Corundum    | 3,05                 | 14   | 100     | 1600     | 0 | 1600     | 1,1 | 1660          | 3,5-0,0006T °C  |                 |
|            | Fe <sub>2</sub> O <sub>3</sub>     | 0,1  |                   |                      |      |         |          |   |          |     |               |                 |                 |
| COREX VFC  | Al <sub>2</sub> O <sub>3</sub>     | 88,0 | Tabular Alumina   | 2,85                 | 18   | 70      | 1600     | 0 | 1600     | 1,0 | 1700          | 3,5-0,0006T °C  | High Purity     |
|            | Fe <sub>2</sub> O <sub>3</sub>     | 0,1  | Synthetic Mullite |                      |      |         |          |   |          |     |               |                 | Creep Resistant |
|            | Na <sub>2</sub> O+K <sub>2</sub> O | 0,35 |                   |                      |      |         |          |   |          |     |               |                 |                 |

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BD: Bulk density  
Densità apparente  
Masse volumique apparente  
Rohdichte

AP: Apparent porosity  
Porosità apparente  
Porosité ouverte  
Offene Porosität

CCS: Cold crushing strength  
Resistenza a compress. a freddo  
Résistance à l'écrasement à froid  
Kaltdruckfestigkeit

PLC: Permanent linear change  
Variazione lineare permanente  
Variation permanente de dimensions  
Bleibende lineare Längeränderung

LTE: Linear thermal expansion  
Dilatazione lineare termica  
Dilatation thermique linéaire  
Lineare Wärmedehnung

RUL: Refractoriness under load  
Resistenza alla termopress.  
Affaissement sous charge  
Druckfeuerbeständigkeit

TC: Thermal conductivity  
Conducibilità termica  
Conductivité thermique  
Wärmeleitfähigkeit