

# Quikturn Castables

## Product Data

### QUIKTURN 60MA

**Quikturn 60MA** is a 60% Alumina, Mullite Based ultra-low cement castable designed for Pre-cast Shapes. After its initial set, **Quikturn 60MA** does not require the tradition curing period and can be dried at heat up rates much higher than traditionally used. **Quikturn 60MA** has good strength, thermal shock and abrasion resistance.

<b><u>Maximum Service Temperature:</u></b>	1700°C
<b><u>Maximum Grain Size:</u></b>	< 12mm
<b><u>Typical Thermal Expansion Coefficient:</u></b>	5.7 cm/cm/°C x 10 <sup>-6</sup>
<b><u>Mixing Water :</u></b>	4.8 - 5.0%
<b><u>Porosity fired to 815°C</u></b>	< 17%
<b><u>Bulk Density:</u></b>	
Dried to 110°C	2450 – 2550 kg/m <sup>3</sup>
Fired to 815°C	2400 – 2500 kg/m <sup>3</sup>
<b><u>Cold Crushing Strength:</u></b>	
Fired to 815°C	> 500 kg/cm <sup>2</sup>
Fired to 1600°C	> 700 kg/cm <sup>2</sup>
<b><u>Permanent Linear Change(%):</u></b>	
Green to 815°C	0.0 to -0.3
Green to 1600°C	-0.2 to -0.9

### **Typical Conductivity or “K” Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /HR/°F/in	W/mK
1000°F ( 540°C)	11.0	1.59
1500°F ( 815°C)	10.0	1.44
2000°F (1095°C)	10.0	1.44

### **Chemical Analysis(%):**

	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO+MgO	Alkalies
Spec;	>60.0	<40.0	<1.20	<2.5	<1.5	<0.5
Typical	61.0	35.0	1.0	2.0	1.0	0.3

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