



## Product Data Sheet

<b>Product</b>	<b>Topkrom MCZ 21</b>
<b>Product Base</b>	<b>Fused magnesia chrome grain</b>
<b>Application</b>	<b>Non ferrous, Tuyeres, Flash Smelter, RH and DH degasser</b>
<b>Chemical Analysis (%)</b>	
SiO <sub>2</sub>	0.90
Fe <sub>2</sub> O <sub>3</sub>	7.00
Al <sub>2</sub> O <sub>3</sub>	4.30
Cr <sub>2</sub> O <sub>3</sub>	21.10
CaO	0.9
MgO	65.8
<b>Physical Properties</b>	
Apparent Porosity (%)	16.0
Bulk Density (g/ml)	3.22
Cold Crushing Strength (MN/m <sup>2</sup> )	60
<b>Modulus of Rupture (MN/m<sup>2</sup>)</b>	
20°C	7.5
1450°C	6.0
<b>Reversible Thermal Expansion (%)</b>	
20 - 300°C	0.29
20 - 1400°C	1.68
20 - 1600°C	1.80
<b>Thermal Conductivity (w/mK)</b>	
Mean Temperature 700°C	2.90
Mean Temperature 1000°C	2.80
Mean Temperature 1200°C	2.80

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The data presented are typical, and not contractual conditions of acceptance. The data presented are average values obtained by laboratory testing of production volumes. The extent and frequency of such testing is defined by the internal procedures of the Quality Management System according to EN ISO 9001:2000 standard.

All rights are reserved to make modifications and updates to the presented data.

Phone 441142377379 fax 707-255-1129 Email [ianwinter43@toucansurf.com](mailto:ianwinter43@toucansurf.com)