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AN ISO 9001:2000 CERTIFIED COMPANY  
**MAGNESIUM OXIDE INSULATING POWDERS**

		Typical Properties				
		22SR	3LA	5A	33	35
<b>Physical Properties</b>						
F Density (g/cc)*		2.39±0.02	2.39±0.02	2.39±0.02	2.38±0.02	2.45±0.02
F Flow (sec./100g)*		175±15	175±15	175±15	180±20	180±20
Static Flow (g)*		53±8	53±8	53±8	53±8	53±8
Magnetic Iron (ppm)*		25±25	25±25	25±25	25±25	25±25
U.S. Std. Sieves (%Retained)*						
40	(425um)	0±0.1	0±0.1	0±0.1	0±0.1	0±0.1
60	(250um)	32± 7	32± 7	32± 7	32± 7	31± 7
100	(150um)	27± 6	27± 6	27± 6	27± 6	25± 6
200	( 75um)	27± 6	27± 6	27± 6	27± 6	30± 6
325	( 45um)	9± 3	9± 3	9± 3	9± 3	9± 3
-325	( -45um)	5± 2	5± 2	5± 2	5± 2	5± 2
* determined by applicable ASTM methods						
<b>Electrical Resistance</b>		at 40W/in <sup>2</sup>			at 30W/in <sup>2</sup>	
Megohms		12± 4	8± 4	7± 4	30± 15	15± 10
Megohm-inches		2340± 780	1560± 585	1365± 585	5880±2940	2940±1960
<b>Chemical Analysis (%)</b>						
MgO		95 ± 3	95 ± 3	95 ± 3	93 ± 3	79 ± 3
CaO**		1.2± 0.5	1.2± 0.5	1.2± 0.5	1.0± 1	1.0± 1
SiO <sub>2</sub> **		3.5± 1	3.5± 1	3.5± 1	3.0± 2	6.0± 2
Fe <sub>2</sub> O <sub>3</sub> **		0.1± 0.1	0.1± 0.1	0.1± 0.1	0.1± 0.1	0.1± 0.1
Al <sub>2</sub> O <sub>3</sub> **		0.7± 0.5	0.7± 0.5	0.7± 0.3	0.5± 0.3	0.5± 0.5
ZrO <sub>2</sub> **					3.0± 2	13 ± 2
ppm Sulfur		25 ± 25	25 ± 25	25 ± 25	25 ± 25	25 ± 25
ppm Boron		35 ± 25	35 ± 25	35 ± 25	35 ± 25	35 ± 25
ppm Carbon		50 ± 50	50 ± 50	50 ± 50	50 ± 50	50 ± 50
** determined by X-Ray Florescence						
<b>LOI (wt. %)*</b>		0.01±0.01	0.01±0.01	0.01±0.01	0.015±0.01	0.015±0.01
<b>Sinter Index (g)*</b>		25 ± 25	25 ± 25	25 ± 25	25 ± 25	25 ± 25
* determined by applicable ASTM methods						

All grades of MgO may be Silicone Coated on request. LST is available to improve MgO shelf life  
 ST is available for moisture protection of MgO in low temperature heating elements

**UCM Group**  
**MUSCLE SHOALS MINERAL**