



**CERAMATERIALS**



*"Your One Stop Shop for Thermal Processing"*

**ITC Problem Solving & Application Chart**

**Aluminum Smelters**

Repair and maint. brick, fiber and castables in contact with molten aluminum.	ITC-100, 148, 296A
Repair and maint. brick, fiber and castables on doors and above molten metal.	ITC-100, 200, 296A
Repair and maintain furnace door jambs	ITC-100, 148
Repair and maintain crucibles, pouring ladles and troughs	ITC-100, 148, 296A
Minimize dross buildup and carbon deposits on metal	ITC-213, 296A
Protect graphite pumps and graphite parts used in molten metals	ITC-213, 100, 296A
Protect and prolong thermocouple life	ITC-213, 296A
Repair burner blocks	ITC-100, 200

**Die Casters**

Save fuel	ITC-100, 200, 296A
Repair and maintain refractory	ITC-100, 200, 296A
Minimize seeding, peeling, chipping, dusting and cracking of refractory	ITC-100, 200, 296A
Protect metal utensils such a ladles, skimmers, thermocouples	ITC-213, 296A
Repair burner blocks	ITC-100, 200



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### **Steel Foundries**

Repair and maintain tundish	ITC-100, 148, 296A
Minimize slag buildup on metal equipment	ITC-213, 296A
Repair and protect metal molds	ITC-213, 296A
Repair and maintain crucibles, ladles and pouring troughs	ITC-100, 148, 296A
Prolong electrical element life	ITC-213, 296A
Spray coating for sand molds	ITC-213, 296A

### **Forge and Blacksmith**

Repair and maintain refractory fiber, castables and brick forge linings	ITC-100, 200
Seal refractory fiber blanket and increase infrared reflectance	ITC-100, 296A
Repair and protect burner nozzles and tuyeres	ITC-213, 296A
Protect metal ladles, skimmers and pipe crucibles	ITC-213, 100, 296A
Coat parts for heat treating	ITC-213, 100
Prevent oxidation of exotic metals	ITC-213

### **Heat Treaters**

Save fuel, improve uniformity of temperature	ITC-100, 200, 296A
Repair brick or fiber in furnaces	ITC-100, 200
Prolong electrical element life	ITC-213, 296A
Protect fans retorts and other metal parts	ITC-213, 296A
Mend cracked steel in ovens	ITC-213, 296A
Repair burner blocks	ITC-100, 200
Reduce recovery time	ITC-100, 200, 296A



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For additional technical information and assistance. Please call:  
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32004 - (817) 337-9889 Greg Odenthal, Director of Engineering and  
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### **Potters, Artists, Porcelain, Brick and Tile Manufacturers**

Save fuel, cut down firing times, improve uniformity of temperature	ITC-100, 200, 296A
Repair brick and fiber in kilns	ITC-100, 200
Minimize kiln dirt and improve ware quality	ITC-100, 296A
Minimize glaze sticking to shelves and kiln furniture	ITC-100, 296A
Prolong electrical element life	ITC-213, 100, 296A
Protect metal sand seals on car bottoms and metal burner tips	ITC-213, 296A
Repair burner blocks	ITC-100 200

### **Power Plants, Paper Mills & Incinerators**

Repair and prolong refractory life in furnace area and minimize ash build-up	ITC-100, 148, 296A
Protect metal water and steam pipes in boiler area and minimize ash build-up	ITC-213, 296A
Repair burner blocks	ITC-100, 200

### **Gold, Silver & Other Precious Metals**

Repair and maintain crucibles and ladles	ITC-100, 148, 296A
Repair and maintain graphite equipment and parts	ITC-213,100,148,296A

### **Forge, Furnace and Kiln Construction**

Protect metal surfaces, door frames, tuyeres and burner nozzles	ITC-213, 296A
Prime metal for application of other refractories	ITC-213
Coating and gluing fibre boards and blankets (Kaowool)	ITC-100