Magma Heat Treatment Muffles



Low Road Earlsheaton Dewsbury WF12 8BU United Kingdom

T: +44 (0)1924 468201 Email: info@magmaceramics.com Web: www.magmaceramics.com



Fig. 1 Shows exploded diagram of component parts

Key Features of Magma Muffles include:-

- ✓ Excellent abrasion resistance
- ✓ Good high temperature volume stability and shape retention
- ✓ Established proven design
- ✓ Complete range of furnaces sizes available
- ✓ Standard and non-standard sizes available

complete range of muffle components for the atmosphere and sealed quench furnaces used in the Heat Treatment of metals industry.

Magma's site based in Wirral, UK, manufactures a

Made in a specifically developed Silicon Carbide material, these muffles exhibit excellent resistance to attack by contaminants within the furnace, such as machine oils and inhibitors often present in the work load. With other muffles this results in "glazing" and fusing together of the muffles, resulting in premature failure. Magma Muffles are proven to greatly reduce this problem.

The Silicon Carbide material is also highly Abrasion resistant and has good thermal conductivity, making it an ideal grade of material for this application.

In summary, Magma Ceramics offer high quality, high performance muffles with a proven track record backed by a comprehensive technical and application support service.

Magma Muffles can be purchased as a complete set for a re-build or as separate components for a partial re-build or minor repair.

	63V Silicon Carbide
Bulk Density g/cm ³	2.52
Porosity %	20.0
Modulus of Rupture N/mm ²	18.5
Thermal Shock Resistance	V Good
Thermal Conductivity W/m/K	6.62
Thermal Expansion Coeff'.	4.9 x10 ^{-6°} C
SiO ₂	6.6
Al ₂ O ₃	28.8
SiC	63.5
ZrO ₂ + HfO ₂	-
Fe ₂ O ₃	<0.3
Cao / MgO	0.2
Na ₂ O / K ₂ O	0.2

Material Properties









Fig 2. Shows assembly diagram of component parts

REGISTERED OFFICE:

Low Road, Earlsheaton, Dewsbury, WF12 8BU, ENGLAND Tel: +44(0) 1924 468 201 / Email: info@magmaceramics.com Web: http://magmaceramics.com