Product Information Sheet

Fiberfrax

Burner Block Moldafrax® BBM-15 and BBM-16

Introduction

Burner Block Moldafrax® BBM-15 and BBM-16 are produced by vacuum molding process in a mixture composed of different types of fibers (amorphous and polycrystaline fiber), fillers and binders for special high temperatures. This manufacturing process allows considerable flexibility in the shapes, thickness and hardness of materials.

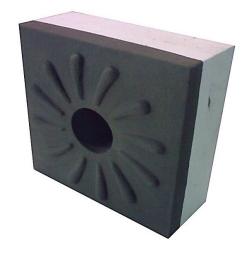
The main advantages of vacuum molded parts, include:

- · Stability at high temperatures,
- Low thermal conductivity
- Low heat storage,
- · Low weight (5 x less when compared to refractory blocks),
- · Longer service life,
- · Inert to thermal shock,
- · Excellent corrosion resistance,
- · Produced according to design and customer requests.

Mix

Molding compounds, vacuum using a small percentage of organic ligands, in addition to the inorganic. This gives the final product uniform hardness and density, as well as excellent resistance in operation and handling.

Fiberfrax® Silplate® Insulfrax® Fyre Wrap® Excelfrax® Saffil® Rigifrax®



- Burner Block Moldafrax® BBM-15 and BBM-16 resist attack from most corrosive agents, with the exception of hydrofluoric acid, phosphoric acid and concentrated alkalis.
- If wet with water, steam or oil, its thermal and physical properties are completely restored after drying.
- Burner Block BBM-15 are manufactured according to customer design, in various formats / geometries.
- They can be supplied with or without surface protection coating in the region of incidence of the flame.











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Burner Block Moldafrax® BBM-15 and BBM-16

		BBM-15				
Color	-	white / beige	Al ₂ O ₃			67.00
Temperature Class	°C	1500	${\rm SiO_2}$			31.00
Temp. Máx. Oper.	°C	1450	Na ₂ O MgO		%	0.25
Recom.						0.02
Melting Point	°C	1760	Fe ₂ O ₃			0.09
Density	kg/m³	430 to 570	LOI			4.97
Especific Heat to 1093°C	J/kg.K	1172				
Compression Resistance	PSI	5% @ 1092°C	10% @ 1092°C			
		31 PSI	34 PSI			
Linear shrinkage to	%	1450°C	1600°C			
24 h		2.7	3.5			
Thermal Conductivity	W/m.K	300°C	600°C	800°C		1200°C
ASTM-C-201		0.080	0.130	0.180		0.348

BBM-16			
gray	Al_2O_3		62.30
1600	${\rm SiO}_2$		37.00
1600	Na ₂ O	%	0.25
	MgO	,,,	0.02
1800	Fe ₂ O ₃		0.09
350 to 450	LOI		> 4.00
1172			
5% @ 1092°C	10% @ 1092°C		
32 PSI	36 PSI		
1600°C			
2.7			
300°C	600°C	800°C	1200°C
0.085	0.137	0.191	0.367

Comparative Lifetime:

Refractory Block (dense) X Moldafrax® BBM-15 e BBM-16 (Vacuum Formed Ceramic Fiber)



Burner Block in refractory 2 years of use / weight: 140 kg



Burner Block BBM-15 7 years of use / weight: 25 kg



Burner Block BBM-15 17 years of use / weight: 27 kg

The temperature class of products Fiberfrax is determined by irreversible linear change criteria, not the melting point.

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