

Customized products for Sponge Iron

Product	Maximum service temperature	Water addition at site	Reversible thermal expansion at 1000°C	Refractoriness	Dry density at 110°C	Cold Crushing Strength		Permanent Linear Change on reheating		Al ₂ O ₃	Fe ₂ O ₃	Al ₂ O ₃ + ZrO ₂ + TiO ₂	Special Features
						°C	%	%	Orton Cone/°C				
MACLITE 11 (SI)	1300	30-40	± 0.57	14/1398	1250	110°C/ 24hrs.	35	1100°C/3hrs.	± 0.2	28.0	4.5	-	
						800°C/3hrs.	25						
						1000°C/3hrs.	25	1300°C/3hrs.	± 1.0				
						1300°C/3hrs.	40						
MAC HEAT C (SI)	1450	10.5-11.5	± 0.55	30/1665	2050	110°C/24hrs.	350	1500°C/3hrs.	± 1.0	44.0	2.5	-	
						800°C/3hrs.	280						
						1450°C/3hrs.	500						
MAC VIB 45 (GCT)	1450	7-10		31	2200	110°C/24hrs.	700	800°C/3hrs.	± 0.2	43.0	1.2	-	Extra high sticking during application; suitable for GCT and Pollution Duct with reasonable outside temperature, withstand chemical attack & high velocity dust laden gases
						800°C/3hrs.	800						
						1100°C/3hrs.	900	1100°C/ 3hrs.	± 0.3				
MAC VIB 45M	1550	5-6	± 0.55	32/1717	2300	110°C/24hrs.	700	800°C/3hrs.	± 0.2	45.0	0.7	-	
						800°C/3hrs.	800						
						1100°C/3hrs.	900	1500°C/ 3hrs.	± 1.0				
						1500°C/3hrs.	1000						
MAC VIB 60 (SI)	1550	5-6	± 0.66	36/1804	2500	110°C/24hrs.	650	800°C/3hrs.	± 0.2	-	1.5 ± 0.5	60.0	Load thermal conductivity and good load bearing capacity. Best suitable for preheating zones for 100 TPD DRI kiln.
						800°C/3hrs.	700						
						1100°C/3hrs.	800	1500°C/3hrs.	± 1.0				
MAC VIB 70 (SI)	1550	4.5-5.0	± 0.65	36/1804	2600	110°C/24hrs.	650	800°C/3hrs.	± 0.2	-	1.5 ± 0.5	70.0 ± 2.0	High abrasion resistance and load bearing capacity. Best suitable for middle zones of 100 TPD DRI kiln
						800°C/3hrs.	700						
						1100°C/3hrs.	800	1550°C/3hrs.	± 1.0				
MAC VIB 60M SPL.	1600	5		36	2600	110°C/24hrs.	750	800°C/3hrs.	± 0.2	60.0	0.8	-	Excellent spalling resistance, high abrasion & anti-accretion characteristic, low outer shell temperature
						800°C/3hrs.	1000						
						1100°C/3hrs.	1200	1100°C/3hrs.	± 0.3				
MAC VIB 60 LR	1600	5		36	2600	110°C/24hrs.	750	800°C/3hrs.	± 0.2	60.0	1.0	-	Low outer shell temperature, excellent spalling resistance, high abrasion and anti accretion characteristic
						800°C/3hrs.	1000						
						1100°C/3hrs.	1200	1100°C/3hrs.	± 0.3				
MAC VIB 80 (SI)	1650	4.5-5.5	±0.75	36/1804	2700	110°C/24hrs.	700	800°C/3hrs.	± 0.2	-	2.0 ± 0.3	80.0 ± 2.0	High abrasion resistance and high load bearing capacity. Best suitable for 100 TPD DRI kiln
						800°C/3hrs.	800						
						1100°C/3hrs.	900	1550°C/3hrs.	± 0.8				
MAC VIB 80 SPL/LI	1700	5		37/1820	2900	800°C/3hrs.	1200	800°C/3hrs.	+0.2	80.0	1.0	-	Anti accretion, wear resistance and high degree of resistance to reducing atmosphere
						1100°C/3hrs.	1500						
MAC VIB 80 LR	1700	5		37/1820	2900	800°C/3hrs.	1200	800°C/3hrs.	+0.2	80.0	1.2	-	Tailor made for sintering zone, low outer shell temperature
						1100°C/3hrs.	1500						

Maximum Grain size: 6mm*

Nature of Bond: Hydraulic

Installation: Vibrating**

Delivery state: Dry

Shelflife: 3 months***

* For MACHEAT C(SI) and MAVIB 45(GCT): 5 mm

** For MACHEAT C(SI) and MACLITE 11(SI): pouring/casting

*** For MACHEAT C(SI) and MACLITE 11(SI): 6 months

In addition to the above we can supply tailor made specifications to suit customer's requirement. For each product, a current product information will be provided. Please follow application procedure sheet before use.

The above data constitutes average results of current production test values