

## FIRE BASIC BRICKS / MATTONI BASICI COTTI / BRIQUES BASIQUES CUITES / BASISCHE GEBRANNT STEINE

BRAND NAME	CHEMICAL ANALYSIS %		MAIN COMPONENTS	BD g/cm <sup>3</sup>	AP %	CCS MPa	°C	PLC %	RUL (T0,5) °C	TC W/mK	NOTE
M 95	MgO	92,0	Magnesite	2,95	18	50	1600	2	1600		
	SiO <sub>2</sub>	3,2									
	Fe <sub>2</sub> O <sub>3</sub>	1,8									
SX C1	MgO	76,0	Magnesite	2,95	19	60	1600	1,8	1550	3,39-0,0009T °C	
	Cr <sub>2</sub> O <sub>3</sub>	10,0	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	6,0									
SX C3	MgO	76,8	Magnesite	2,96	19	57	1400	1,64	1560		
	Cr <sub>2</sub> O <sub>3</sub>	8,6	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	6,2									
SX TP	MgO	82,0	Magnesite	3,00	18	50	1400		1600	3,8-0,0013T °C	
	Cr <sub>2</sub> O <sub>3</sub>	4,0	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	8,0									
SX TP-R	MgO	82,0	Magnesite	2,90	18	50	1400	1,6	1600	8,78-0,0066T °C	
	Cr <sub>2</sub> O <sub>3</sub>	4,0	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	5,0									
SX 150C	MgO	82,0	Magnesia	2,88	18	60	1400	1,54	1660	4,12-0,0010T °C	
	Al <sub>2</sub> O <sub>3</sub>	12,0	Spinel								
	Fe <sub>2</sub> O <sub>3</sub>	1,9									
SX 150C-7	MgO	86,3	Magnesia	2,88	18	60	1400	1,52	>1680	4,12-0,0010T °C	
	Al <sub>2</sub> O <sub>3</sub>	8,2	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	2,1									
SX 150	MgO	85,0	Magnesite	2,89	17	55	1400	1,68	>1700	5,22-0,0026T °C	
	Al <sub>2</sub> O <sub>3</sub>	12,0	Spinel								
	Fe <sub>2</sub> O <sub>3</sub>	0,5									
SX 150-5	MgO	92,0	Magnesite	2,92	16	60	1400	1,68	>1700	5,64-0,0029T °C	
	Al <sub>2</sub> O <sub>3</sub>	5,5	Spinel								
	Fe <sub>2</sub> O <sub>3</sub>	0,5									
SX 150C3	MgO	88,9	Magnesite	2,88	17	45	1400	1,81	>1660	5,66-0,0019T °C	
	Al <sub>2</sub> O <sub>3</sub>	6,1	Spinel								
	Fe <sub>2</sub> O <sub>3</sub>	1,8									
DB CM 50	MgO	51,0	Magnesite	3,12	17	60			>1700		
	Cr <sub>2</sub> O <sub>3</sub>	27,0	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	12,5									
DB CM 40	MgO	42,0	Magnesite	3,27	18	55	1400	1,47	>1700	3,67-0,0003T °C	
	Cr <sub>2</sub> O <sub>3</sub>	31,5	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	15,4									
DB CM V	MgO	54,0	Magnesite	3,21	17	70	1400	1,53	>1700	4,99-0,0014T °C	
	Cr <sub>2</sub> O <sub>3</sub>	22,0	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	14,5									

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BD: Bulk density  
Densità apparente  
Masse volumique apparente  
Rohdichte

AP: Apparent porosity  
Porosità apparente  
Porosità ouverte  
Offene Porosität

CCS: Cold crushing strength  
Resistenza a compress. a freddo  
Résistance à l'écrasement à froid  
Kaltdruckfestigkeit

PLC: Permanent linear change  
Variazione lineare permanente  
Variation permanente de dimensions  
Bleibende lineare Längeränderung

LTE: Linear thermal expansion  
Dilatazione lineare termica  
Dilatation thermique linéaire  
Lineare Wärmedehnung

RUL: Refractoriness under load  
Resistenza alla termopress.  
Affaissement sous charge  
Druckfeuerbeständigkeit

TC: Thermal conductivity  
Conducibilità termica  
Conductivité thermique  
Wärmeleitfähigkeit

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SX DB 55	MgO	57,0	Magnesite	3,17	18	55			>1700		
	Cr <sub>2</sub> O <sub>3</sub>	23,0	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	11,0									
SX DB	MgO	69,0	Magnesite	3,14	17	65			>1700	4,20-0,0015T °C	
	Cr <sub>2</sub> O <sub>3</sub>	16,0	Chromite								
	Fe <sub>2</sub> O <sub>3</sub>	7,9									
M 400	MgO	96,0	Magnesite	2,90	16	60	1400	1,94	>1700	4,93-0,0014T °C	
	Al <sub>2</sub> O <sub>3</sub>	0,2									
	Fe <sub>2</sub> O <sub>3</sub>	0,4									
	CaO	2,1									
M 400Z	MgO	95,0	Magnesite	3,04	16	50			>1700		
	ZrO <sub>2</sub>	3,4	Zirconia								
	Fe <sub>2</sub> O <sub>3</sub>	0,5									
	CaO	1,1									

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