

Technical Data Sheet

Dense Monolithic Refractories

General Description:

Dirgodaz Amol Industries Co, manufactures different types of dense monolithic refractories with hydraulic setting for maximum service temperature up to 1800°C. Depend on the installation techniques these monolithic materials are available in different types of castables, and gunning mix with high adhesion and low rebound loss. For various requirements such as high abrasion resistance, thermal shock resistance, thermal conductivity, chemical purity and acid/alkali resistance, suitable products are designed.

Advantages & Characteristics:

high mechanical strength, thermo mechanical properties, thermal shock and spalling resistance, abrasion resistance, chemical corrosion resistance, good rheological behavior and easy to installation.

Typical Applications:

- ▣ chemical & petrochemical (olefin, methanol)
- ▣ ferrous metals (iron ore pelletizing, iron ore direct reduction, steel, cast iron)
- ▣ non-ferrous metals (aluminum, copper)
- ▣ ceramic (tile, porcelain, glass, cement)

Property	S.T	B.D (g/cm ³)	C.C.S (kg/cm ²)		P.L.C (%)	T.C (W/m.k)		Chemical Analysis (%)			
Code	(°C)	110°C	110 °C	1000°C	1000°C	600°C	1000°C	Al ₂ O ₃	CaO	Fe ₂ O ₃	SiO ₂
SD-DC12	1200	2.2	300	250	0.5	1.7	1.9	30	10	5	51
SD-DC13/1	1300	2.1	300	210	0.5	0.92	0.97	40	5	2	49
SD-DC13/2	1300	2.3	500	350	0.5	1.4	1.6	40	4	2	50
SD-DC14	1400	2.3	500	380	0.3	1.6	1.8	50	4	2	40
SD-DC15	1500	2.4	600	400	0.3	1.75	1.9	55	3.5	1.5	37
SD-DC16/1	1600	2.1	300	250	0.3	0.87	0.92	60	3	1.5	32
SD-DC16/2	1600	2.55	700	450	0.3	1.8	1.95	60	3	1.5	32
SD-DC16/3	1650	2.7	700	450	0.3	1.95	2.1	70	2.8	2	22
SD-DC17/1	1700	2.8	700	500	0.2	2.2	2.35	80	2.5	1.5	13
SD-DC17/2	1750	3	700	750	0.2	3.2	2.7	91	1.8	0.5	5
SD-DC17/3	1750	3.1	700	900	0.2	3.2	2.7	92	0.9	0.5	5
SD-DC18/1	1800	2.9	500	350	0.1	2.2	1.7	96	3	0.2	0.2
SD-DC18/2	1800	2.9	700	500	0.1	2	1.6	94	4.8	0.2	0.2