



MAHAVIR REFRACTORIES CORPORATION

Typical Technical Parameters

99% HIGH ALUMINA BED SUPPORTS

Grade AMR10

Nominal Size (MM)	3	6	13	19	25	37	50
Nominal Size (Inch)	1/8"	1/4"	1/2"	3/4"	1"	1.5"	2"
Size Range	2-4	5-7	12-14	18-20	23-27	35-40	47-53
Individual Ball Density Kg/ltr (min)	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Bulk Density kg/ltr	2000±100	2000±100	2000±100	1950±100	1950±100	1900±100	1900±100
Water Absorption %(Max)	3	3	3	3	3	3	3
Apperent Porosity % (Max)	10	10	10	10	10	10	10
CCS kg Avg Point Load	75	100	300	600	1100	1600	2100
Chemical Analysis							
Al ₂ O ₃ % (Min)	99.0	99.0	99.0	99.0	99.0	99.0	99.0
SiO ₂ % (Max)	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Fe ₂ O ₃ % (Max)	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Na ₂ O + K ₂ O % (Max)	0.30	0.30	0.30	0.30	0.30	0.30	0.30

Grade AMR20

Nominal Size (MM)	3	6	13	19	25	37	50
Nominal Size	1/8"	1/4"	1/2"	3/4"	1"	1.5"	2"
Size Range	2-4	5-7	12-14	18-20	23-27	35-40	47-53
Individual Ball Density Kg/ltr (min)	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Bulk Density kg/ltr	2000±100	2000±100	2000±100	1950±100	1950±100	1900±100	1900±100
Water Absorption %(Max)	7	7	7	7	7	7	7
Apperent Porosity % (Max)	20	20	20	20	20	20	20
CCS kg Avg Point Load	50	75	250	500	1000	1500	2000
Chemical Analysis							
Al ₂ O ₃ % (Min)	99.0	99.0	99.0	99.0	99.0	99.0	99.0
SiO ₂ % (Max)	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Fe ₂ O ₃ % (Max)	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Na ₂ O + K ₂ O % (Max)	0.30	0.30	0.30	0.30	0.30	0.30	0.30



MAHAVIR REFRACTORIES CORPORATION

Typical Technical Parameters

99% HIGH ALUMINA BED SUPPORTS

Grade AMR1

Nominal Size (MM)	3	6	13	19	25	37	50
Nominal Size	1/8"	1/4"	1/2"	3/4"	1"	1.5"	2"
Size Range	2-4	5-7	12-14	18-20	23-27	35-40	47-53
Individual Ball Density Kg/ltr (min)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Bulk Density kg/ltr	2100±100	2100±100	2100±100	2050±100	2050±100	2000±100	2000±100
Water Absorption %(Max)	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7
Apperent Porosity % (Max)	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0
CCS kg Avg Point Load	100	150	400	750	1500	2000	2500
Chemical Analysis							
Al ₂ O ₃ % (Min)	99.0	99.0	99.0	99.0	99.0	99.0	99.0
SiO ₂ % (Max)	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Fe ₂ O ₃ % (Max)	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Na ₂ O + K ₂ O % (Max)	0.30	0.30	0.30	0.30	0.30	0.30	0.30

Grade AMR5

Nominal Size (MM)	3	6	13	19	25	37	50
Nominal Size	1/8"	1/4"	1/2"	3/4"	1"	1.5"	2"
Size Range	2-4	5-7	12-14	18-20	23-27	35-40	47-53
Individual Ball Density Kg/ltr (min)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Bulk Density kg/ltr	2050±100	2050±100	2050±100	2000±100	2000±100	1950±100	1950±100
Water Absorption %(Max)	1-1.5	1-1.5	1-1.5	1-1.5	1-1.5	1-1.5	1-1.5
Apperent Porosity % (Max)	3-4	3-4	3-4	3-4	3-4	3-4	3-4
CCS kg Avg Point Load	90	120	350	650	1200	1800	2300
Chemical Analysis							
Al ₂ O ₃ % (Min)	99.0	99.0	99.0	99.0	99.0	99.0	99.0
SiO ₂ % (Max)	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Fe ₂ O ₃ % (Max)	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Na ₂ O + K ₂ O % (Max)	0.30	0.30	0.30	0.30	0.30	0.30	0.30