

Quality Granite

Physical Property Testing Results		Specifications C/T205-92(96)	Granite G 352	Granite G 603	Granite G 633	Granite G 639	Granite G 640	Granite G 654	Granite G 682	Basalt * G 684
Rock Type			Alteration Granite	Granodiorite	Fine Biotite Granite	Albitization Granite	Biotite Plagioclase Granite	Alteration Diorite	Medium Granite	Olivine Gabbro
Water Absorption (%)		≤ 1.00	0.08	0.28	0.29	0.62	0.25	0.14	0.46	0.09
Density (g/cm ³)		≥ 2.50	2.7	2.64	2.64	2.64	2.68	2.8	2.6	2.98
Flexural Strength (MPa)		≥ 8.00	17.9	10.8	12.3	9.5	15.5	22.2	11.8	25.8
Compressive Strength (MPa)		≥ 60.0	184.1	174.2	174.9	171	163.3	205.7	177.6	201.1
Shore Hardness (HSD)		-	100	101	94	57	94	90	128.6	85
Progressive Strength After Freezing (MPa)		-	-	-	-	-	-	-	-	196.8
Chemical Property Analysis Testing			Granite G 352	Granite G 603	Granite G 633	Granite G 639	Granite G 640	Granite G 654	Granite G 682	Basalt * G 684
L.O.I.	Analysis Results (%)		0.78	1.86	0.18	2.7	0.2	0.11	0.57	0.51
SiO ₂	Analysis Results (%)		68.88	70.3	71.27	67.9	68.14	59.38	78.67	48.17
Al ₂ O ₃	Analysis Results (%)		16.02	15.48	16.08	18.62	16.41	16.37	11.11	13.27
P ₂ O ₅	Analysis Results (%)		0.093	0.067	0.069	-	0.162	-	0.008	-
Fe ₂ O ₃	Analysis Results (%)		2.58	0.43	1.91	0.34	3.16	7.44	0.75	11.22
TiO ₂	Analysis Results (%)		0.39	0.21	0.22	0.01	0.41	0.86	0.11	2
CaO	Analysis Results (%)		1.46	2.49	2.89	1.12	4	5.98	0.6	9.42
MgO	Analysis Results (%)		0.44	0.35	0.42	0.8	0.74	3.9	0.07	10.07
K ₂ O	Analysis Results (%)		5.12	3.38	2.12	2.06	2.64	2.25	3.96	1.5
Na ₂ O	Analysis Results (%)		4.07	3.8	4.42	5.54	3.61	3.17	3.34	3.41
MnO	Analysis Results (%)		0.09	0.09	0.08	0.15	0.1	0.15	0.09	0.19

* not acid resistant