



TECHNICAL BULLETIN # 91

MAY, 2002

INDUSTRIAL SAND

DESCRIPTION

Recommended sand is composed of hard siliceous, durable grains, free from dirt, clay, water soluble and micaceous particles. Ideally sand should contain a minimum silica dioxide (SiO₂) content of 80%, a maximum loss of ignition of 1%, a maximum chloride content of 0.03% and maximum moisture content of 0.5%, by weight, when shipped. Ideally sand should have a minimum hardness of 6.5 on the Moh's scale.

Recommended sand are fresh water washed, kiln dried, screened, aggregate blends. They are typically supplied in 30, 20, 16 and 12 mesh sizes. The following are typical representative gradations. The values are the percentage passing through the screen size.

U. S. SCREEN NUMBER	LARGER			SMALLER
	#12 MESH	#16 MESH	#20 MESH	#30 MESH
70				
50				0 - 3
40			0 - 1	1 - 10
30	0 - 2	0 - 5	2 - 15	10 - 30
20	1 - 6	5 - 25	30 - 60	70 - 90
16	15 - 40	40 - 80	92 - 100	100
14		75 - 95		
12	65 - 85	98 - 100	100	
8	100	100		