

MICRO SILICA

Stallion Energy Pvt Ltd's Micro Silica (Silica fume) is a super pozzolan ,ultrafine material which makes durable concrete with higher compressive strength and low permeability having better finish. Blending with Portland cement, Micro Silica improves the properties of Concrete and Cement products. In concrete it improves durability, strength gain, workability, flow ability and reduces

segregation.



TYPICAL PROPERTIES

CHEMICAL PROPERTIES	Unit	Result Obtained	Protocol
Silica as SiO ₂	%	92.80	ASTM C-114
Alumina as Al ₂ O ₃	%	0.60	ASTM C-114
Iron as Fe ₂ O ₃	%	0.30	ASTM C-114
Magnesium as MgO	%	0.60	ASTM C-114
Total Alkalies as (Na ₂ O+0.658 K ₂ O)	%	1.17	ASTM C-114
Sulphur Trioxide as SO ₃	%	Less Than 0.10	ASTM C-114
pH of 20% Soln.	--	8.83	By pH meter
PHYSICAL PROPERTIES	Unit	Result Obtained	Protocol
Density	Mg/M ³	1.89	ASTM C-1240
Specific Surface Area (BET)	Kg/M ³	317	ASTM C-1240
Bulk Density	M ² /gm	16.44	ASTM C-1240
Moisture	%	1.17	ASTM C-311
Loss on Ignition	%	1.60	ASTM C-311
Accelerated Pozzolanic Strength Activity Index with Portland Cement at 7 Days	%	>106.3	ASTM C 1240 : 2005