

FOUNDRY SANDS

Sands with high content of SiO₂ and favourable granularity are an exclusive raw material in the foundry industry for the sand casting and for production of sand core. Foundry sands are widely used in the building chemistry for production of bonding cements, levelling and joint compounds, special building mortars and plasters. Furthermore these sands are used for the natural lawn aeration. The sands are being sold wet or dried, in bulk or in bags, transported on trucks or wagons.

GRANULARITY, PHYSICAL AND OTHER CHARACTERISTICS

	ST 52	ST 53	ST 54	ST 55	ST 56		Method
Middle Grain Size (d50)	0,32	0,26	0,22	0,19	0,15	mm	screening
Beginning of sintering	1550	1550	1550	1550	1550	°C	
PH	7	7,5	7,4	7,8	7,5		
AFS	43,4	55,4	64,4	82,2	107		screening
Washed matter	0,09	0,16	0,05	0,04	0,06	%	
Loss by annealing	0,11	0,22	0,22	0,25	0,26	%	
Bulk Weight	1,48	1,48	1,47	1,48	1,48	t/m ³	
> 800 µm						%	screening
> 630 µm	0,1	0,1	0,1			%	screening
> 500 µm	1,7	0,8	0,5	0,13	0,01	%	screening
> 400 µm	12	6,1	3,3	1	0,6	%	screening
> 315 µm	37	22,6	12	5,1	2,8	%	screening
> 200 µm	45	47	43,3	36,6	21,3	%	screening
> 100 µm	3,9	22,5	40	47,3	53	%	screening
> 63 µm	0,1	1,00	1,2	7,6	16,4	%	screening
< 63 µm				2,2	5,8	%	screening

CHEMICAL ANALYSIS (RFA) %

	ST 52	ST 53	ST 54	ST 55	ST 56	
SiO ₂	99,3	99,2	99,2	99,0	99,0	
Fe ₂ O ₃	0,04	0,04	0,04	0,07	0,09	
K ₂ O + Na ₂ O	0,1	0,1	0,1	0,1	0,2	
CaO + MgO	0,1	0,1	0,1	0,1	0,2	
Density (g/cm ³)	2,65			Humidity in a wet state (%)		8,0 max
Hardness, Mohs	7			Humidity in a dry state (%)		0,2 max

Střeleč silica sands are improved natural raw materials. The above-mentioned information is based on average values. The data should be considered as indicative. Occurrence of coarser or finer fractions in trace quantities is possible. The user should test the product and consider, whether it is suitable for the desired purpose. On the customer's request we can discuss the tolerances of the products data. Sale and delivery is always based on agreed commercial conditions and relevant company standard or a quality agreement.