

MICRO-MILLED SANDS

The micro-milled sands – silica flour are produced by milling in a ironless environment, by classification with use of air separators. The raw material used for the production of micro-milled sands – silica flour is treated silica sand with SiO₂ content above 99 %. The chemical purity, favourable particle size distribution, chemical inertia and hardness of micro-milled sands – silica flour is appreciated in the production of glass fibres, ceramic enamels, glazes, as a filler in plastics, in the production of special mortar mixtures, tile adhesives and in the foundry industry for the production of moulds. The sands are being sold dried, in bulk or in bags, transported on trucks or wagons.

GRANULARITY AND OTHER CHARACTERISTICS

	ST 2	ST 6	ST 7	ST 8	ST 9		Method
Middle Grain Size (d50)	27	16	12	9	6	µm	laser
Specific surface	3170	3760	4110	4500	5400	cm ² /g	blaine
Oil-absorption no.	33,9	36,2	37,1	39,1	40,5	ml/100g	
Bulk Weight	1,19	0,99	0,99	0,93	0,92	t/m ³	
> 90 µm	5,7					%	screening
> 63 µm	14,5					%	screening
> 45 µm		6,2	3,5	0,8	0,1	%	screening
> 40 µm	19,8					%	screening
> 45 µm	31	10	4,5	0,7	0,2	%	laser
> 40 µm	35	15	9	2	0,6	%	laser
> 32 µm	44	23	17	7	2	%	laser
> 20 µm	58	43	33	22	10	%	laser
> 15 µm	66	52	43	33	17	%	laser
> 10 µm	73	63	57	48	29	%	laser
> 5 µm	83	76	69	64	46	%	laser
> 2 µm	93	90	83	79	71	%	laser
> 1 µm	97	96	95	95	93	%	laser

CHEMICAL ANALYSIS (RFA) %

SiO ₂	99,6	CaO + MgO	0,1
Fe ₂ O ₃	0,05	Na ₂ O + K ₂ O	0,1
Al ₂ O ₃	0,2		

PHYSICAL CHARACTERISTICS

Density (g/cm ³)	2,65	Humidity (%)	0,2 max
Hardness, Mohs	7	pH	6,4
Loss by annealing (%)	0,2		

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.