

AL₂Chem Fumed Silicas - Typical Physical Properties

AL ₂ Chem Grade	Hydrophilic				Hydrophobic					
	AL FS-150	AL FS-200	AL FS-300	AL FS-400	AL FS-800	AL FS-815	AL FS-820	AL FS-830	AL FS-900	AL FS-904
BET Surface Area (m ² /g)	150 ±20	200 ± 25	300 ± 30	400 ± 30	100 ± 20	130 ± 20	170 ± 20	260 ± 20	130 ± 20	170 ± 20
SiO ₂ content (dry) %	≥99.8	≥99.8	≥99.8	≥99.8	≥99.8	≥99.8	≥99.8	≥99.8	≥99.8	≥99.8
pH value	3.8-5.5	3.8-5.5	3.8-4.5	3.8-4.5	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0
Bulk Density (g/l)	40-50	40-50	40-50	40-50	40-50	40-50	40-50	40-50	40-50	40-50
Heating Loss % (105°C for 2hr)	≤ 1.5	≤ 1.5	≤ 2.0	≤ 2.0	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
Ignition Loss % (1000°C for 2hr)	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01
Chloride Content %	≤0.025	≤0.025	≤0.025	≤0.025	≤0.025	≤0.025	≤0.025	≤0.025	≤0.025	≤0.025
Surface Treatment	-	-	-	-	Silicone Oil (polydimethyl-siloxane)	HMDZ (hexamethyl-silazane)	HMDZ (hexamethyl-silazane)	HMDZ (hexamethyl-silazane)	DMDS (dimethyldi-chlorosilane)	D4 (octa-methylcyclo-tetrasiloxane)
Carbon Content %					0.8	0.8	1.0	1.8	0.8	2.8

Note: AL₂Chem LLC makes no expressed warranty of performance based on this data; it is provided as a reference.