



Shandong Zhanchi New Materials Co., Ltd
Shanghai Chenxu Trading Co.,Ltd

ADD: Room 531 Building 37 No.,2049 Road,Minhang District,Shanghai,CHINA.201104

High purity nano alumina sol (aluminum sol) series



The chemical molecular formula of alumina sol is a $(Al_2O_3 \cdot nH_2O) \cdot BHx \cdot CH_2O$, in which $Al_2O_3 \cdot nH_2O$ is hydrated alumina and HX is glue solvent. Alumina sol has the characteristics of glue viscosity, thixotropy, easy dispersion, water solubility reversibility, suspension, positive electricity, adsorption and stability.

Alumina sol liquid

Model		CX-J10	CX-J20	CX-J30	CX-J40
Al ₂ O ₃	%	10	10	10	10
Mean Particle Size(D50)	nm	10-30	80-120	80-120	400-500
Appearance	Fully transparent liquid	Translucent liquid			
Adhesive		nitric acid			
viscosity (25°C、pa·s)		<50	<50	<200	<200
PH Value		4-5	4-5	4-5	4-5
Packing		25kg	25kg	25kg	25kg



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Alumina sol powder

Spec.		CX-JS10	CX-JS20	CX-JS30	CX-JS40
Al ₂ O ₃	%	80	80	80	80
Mean Particle Size (D50)	nm	35	35	50	50
Appearance		White powder			
BET Specific Surface Area	m ² /g	300	250	200	150
NO ₃ ⁻	%	4	-	1.5	0.7
H ₃ COO ⁻	%	-	2	-	-
Pore volume	ml/g	0.5	0.4	0.4	0.5
Packing		25kg	25kg	25kg	25kg

Nano alumina sol (aluminum sol) application:

- 1) Petrochemical catalysts
- 2) Molding binder for high temperature resistant materials such as aluminum silicate fiber and ceramics
- 3) Additives for ceramic enamel
- 4) Antistatic agent for flocking and flocking
- 5) Film forming agent and antistatic agent for textile and fiber treatment
- 6) Emulsifier and stabilizer for alumina castables, pigments and coatings for precision casting
- 7) Photo paper surface treatment agent
- 8) Greenhouse antifogging agent
- 9) Waterproof agent
- 10) Others: Inorganic fiber, activated alumina, high purity alumina, enamel, daily necessities, papermaking and other industries.