

"SPECIFICATION FOR PROCUREMENT OF NANO POWDER"

Sl. No	Description	Specification
A	Boron Nitride Dispersion, BN	
i.	Boron Nitride Dispersion	Boron Nitride Dispersion BN, Component: BN, Concentration: 20 mg/ml in Water/suitable Chemical, Purity: 99.00%, High Purity Boron Nitride Dispersion
ii.	Average Particle Size	<500nm
iii.	Purity	99.0% or above
iv.	Concentration	20 mg/ml in Water/suitable Chemical
v.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable for the sample batch being offered.
vi.	MSDS	Material and Safety data Sheet to be provided
vii.	COA	Certificate of analysis of the material has to be provided.
B	Boron Nitride Dispersion, BN	
viii.	Boron Nitride Dispersion	Boron Nitride Dispersion BN, Component: BN, APS: <500nm, Concentration: 0.1-0.5mg/ml, Purity: 99.99%, High Purity Boron Nitride Dispersion
ix.	Average Particle Size	<500nm
x.	Purity	99.0% or above
xi.	Concentration	0.1-0.5mg/ml in Water/suitable Chemical
xii.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable for the sample batch being offered.
xiii.	MSDS	Material and Safety data Sheet to be provided
xiv.	COA	Certificate of analysis of the material has to be provided.
C	Hexagonal Nano Boron Nitride, BN	
i.	Hexagonal Boron Nitride Nano	Hexagonal Nano Boron Nitride, Purity: 99.9%, APS: <150nm, High Purity Boron Nitride Nano Particles
ii.	Purity	99.0% or above
iii.	Average Particle Size	<150nm
iv.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable for the sample batch being offered.
v.	MSDS	Material and Safety data Sheet to be provided
vi.	COA	Certificate of analysis of the material has to be provided
D	Aluminum Oxide, Al₂O₃	
i.	Aluminum Oxide Nano Powder	Aluminum Oxide Nano Dispersion, Al ₂ O ₃ , APS: <50nm, Purity: 99.9%, , High Purity Aluminum Oxide Dispersion
ii.	Average Particle Size	<50nm
iii.	Purity	99.0% and Above
iv.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable
v.	MSDS	Material and Safety data Sheet to be provided
vi.	COA	Certificate of analysis of the material has to be provided.
E	Aluminum Oxide Dispersion, Al₂O₃	
i.	Aluminum Oxide Nano Powder	Aluminum Oxide Nano Dispersion, Al ₂ O ₃ , APS: 30-60nm, Purity: 99.9%, concentration:20% in NMP /Water, High Purity Aluminum Oxide Dispersion
ii.	Average Particle Size	80-100nm
iii.	Purity	99.0% and Above
iv.	Concentration	20% in NMP/Water
v.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable
vi.	MSDS	Material and Safety data Sheet to be provided
vii.	COA	Certificate of analysis of the material has to be provided.
F	Silicon dioxide, SiO₂	
i.	Silicon dioxide Nano	Silicon dioxide Nano Powder, SiO ₂ , APS: 10-20nm, Purity: 99.9%, High Purity

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	Powder	Aluminum Oxide Dispersion
ii.	Average Particle Size	80-100nm
iii.	Purity	99.0% and Above
iv.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable
v.	MSDS	Material and Safety data Sheet to be provided
vi.	COA	Certificate of analysis of the material has to be provided.
G	3-Aminopropyl(3-oxobutanoic acid) functionalized silica	
i.	3-Aminopropyl(3-oxobutanoic acid) functionalized silica	3-Aminopropyl (3-oxobutanoic acid) functionalized silica Nano Dispersion, APS: approx. 15nm, Purity: 99.0%, concentration: 2.5 % (w/v) in DMF /NMP /Water
ii.	Average Particle Size	approx. 15nm
iii.	Purity	99.0% and Above
iv.	Concentration	2.5 % (w/v) in DMF /NMP /Water
v.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable
vi.	MSDS	Material and Safety data Sheet to be provided
vii.	COA	Certificate of analysis of the material has to be provided.
H	Titanium oxide, TiO₂	
i.	Titanium oxide, TiO ₂ Nano Powder	Titanium oxide, TiO ₂ Nano Dispersion in 50-60 wt. % in diethylene glycol monobutyl ether/ethylene glycol APS: approx. 25nm, Purity: 99.0 %.
ii.	Average Particle Size	approx. 25nm
iii.	Purity	99.0% and Above
iv.	Concentration	50-60 wt. % in diethylene glycol monobutyl ether/ethylene glycol
v.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable
vi.	MSDS	Material and Safety data Sheet to be provided
vii.	COA	Certificate of analysis of the material has to be provided.
I	Titanium oxide, TiO₂	
i.	Titanium oxide, TiO ₂ Nano Powder	Titanium oxide, TiO ₂ Nano Powder Dispersion, TiO ₂ , APS: 100-150nm, Purity: 99.0%, concentration:40% in NMP /Water.
ii.	Average Particle Size	100-150nm
iii.	Purity	99.0% and Above
iv.	Concentration	40% in NMP/Water
v.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable
vi.	MSDS	Material and Safety data Sheet to be provided
vii.	COA	Certificate of analysis of the material has to be provided.
J	Aluminum Oxide Dispersion, Al₂O₃	
i.	Aluminum Oxide Nano Powder	Aluminum Oxide Nano Dispersion, Al ₂ O ₃ , APS: <50nm, Purity: 99.0%, concentration:20% in isopropanol/NMP /Water, High Purity Aluminum Oxide Dispersion
ii.	Average Particle Size	<50nm
iii.	Purity	99.0% and Above
iv.	Concentration	20% in isopropanol/ NMP/Water
v.	Certificates	The supplier has to provide SEM, TEM, XRD, Raman etc. whichever are applicable
vi.	MSDS	Material and Safety data Sheet to be provided
vii.	COA	Certificate of analysis of the material has to be provided.


