5N/6N High Purity Aluminum Oxide

CAS#: 1344-28-1

M.W: 101.96

| Туре | Apperance | Phase | Particle Size | Purity (%) | Specific Surface Area (m2/g) | Character and Application | | | | | |
|---------|-------------------------------|---------|---------------|------------|------------------------------|--------------------------------------|--|--|--|--|--|
| 6N High | 6N High Purity Aluminum Oxide | | | | | | | | | | |
| SN-300N | White powder | α phase | 1-20 um | 99.9999 | 5-15 | Laser Crystal | | | | | |
| SN-200N | White powder | α phase | 0.2-5 um | 99.9999 | 5-15 | PTFE Additive | | | | | |
| 5N High | 5N High Purity Aluminum Oxide | | | | | | | | | | |
| FN-100G | White powder | α phase | 0.3-10 um | 99.999 | 5-15 | Sapphire crystal | | | | | |
| FN-500G | White powder | α phase | 500nm | 99.999 | 5-15 | Coating of Lithium battery diaphragm | | | | | |
| FN-20GY | White powder | γ phase | 10-20nm | 99.999 | 100-160 | Military project, Ceramics | | | | | |
| FN-30G | White powder | Hybrid | 30-50nm | 99.999 | 20-40 | Ceramics, Paint | | | | | |

4N Nano Aluminum Oxide

CAS#: 1344-28-1

M.W: 101.96

| Туре | Apperance | Phase | Particle Size (nm) | Purity (%) | Specific Surface Area (m2/g) | Character and Application |
|----------|---------------|--------------|--------------------|------------|------------------------------|---|
| 4N High | Purity Nano A | luminum O | xide (α phase) | | | |
| 4N-30 | White powder | Hybrid | 30nm | 99.99 | 20-40 | Ceramic, Target materials, Refractory materials |
| 4N-100 | White powder | α phase | 100nm | 99.99 | 5-15 | Ceramic, Coating |
| 4N-200 | White powder | α phase | 200nm | 99.99 | 5-15 | Ceramic, Plastic, Rubber |
| 4N-300 | White powder | α phase | 300nm | 99.99 | 5-10 | Ceramic, Plastic, Rubber |
| 4N-500 | White powder | α phase | 500nm | 99.99 | 5-10 | Coating of battery diaphragm |
| Nano Alu | ıminum Oxide | for polishin | ng | | | |
| 4N-05P | White powder | α phase | 50nm | 99.99 | 20-40 | Precision Polishing |
| 4N-10P | White powder | α phase | 100nm | 99.99 | 10-30 | Precision Polishing |
| 4N-20P | White powder | α phase | 200nm | 99.99 | 5-15 | Precision Polishing |
| 4N-30P | White powder | α phase | 300nm | 99.99 | 5-10 | Polishing for metal, precious stone |
| 4N-50P | White powder | α phase | 500nm | 99.99 | 5-10 | Polishing for meter, precious stone |
| 3N-33P | White powder | α phase | 1-2 um | 99.9 | 5-10 | Polishing for metal |

4N Nano Aluminum Oxide

CAS#: 1344-28-1

M.W: 101.96

| Туре | Apperance | Phase | Particle Size (nm) | Purity (%) | Specific Surface Area (m2/g) | Character and Application |
|----------|---------------|-------------|--------------------|------------|------------------------------|--|
| 4N High | Purity Nano A | luminum O | xide (γ phase) | | | |
| 4N-R20Y | White powder | γ phase | 10-20nm | 99.99 | 120-160 | Catalyst carrier |
| 4N-R20M | White powder | γ phase | 10-20nm | 99.99 | 110-150 | Anticaking agent for powder coating |
| 4N-R30D | White powder | γ phase | 10-30nm | 99.99 | 100-160 | Anode material of Lithium Battery |
| 4N-R50Y | White powder | γ phase | 50nm | 99.99 | 100-150 | Catalyst carrier |
| 4N Nano | grade Alumin | um Hydrox | ide | | • | |
| 4N-AH20 | White powder | / | 10-20nm | 99.99 | 200-300 | Catalyst carrier |
| 4N-AH30D | White powder | / | 30nm | 99.99 | 200-300 | Anode material of Lithium Battery |
| 4N-AH50 | White powder | / | 50nm | 99.99 | 150-200 | Fire retardant carrier, Catalyst carrier |
| 4N-AH100 | White powder | / | 100nm | 99.9 | 10-20 | Fire retardant |
| Nano Alu | ıminum Oxide | for Heat Co | onduction | | | |
| 4N-04R | White powder | α phase | 500nm | 99.9 | 5-10 | Heat conduction for Rubber and Plastic |
| 3N-600D | White powder | α phase | 1-5um | 99.9 | 6-10 | Heat conduction for Rubber and Plastic |

Nano Titanium Dioxide Series

Specification:

| Туре | Apperance | Purity (%) | Particle Size | Specific Surface Area | Type & Surface property | Character and Application | | | | | |
|---------------|-------------------------------------|-------------------------|---------------|----------------------------------|---|--|--|--|--|--|--|
| High activity | ligh activity Nano Titanium Dioxide | | | | | | | | | | |
| BR-05 | White powder | 1 999 I 50M I 150-300 I | | Anatase, Super-hydrophilicity | High catalytic activity. Deodorization and formaldehyde removal | | | | | | |
| 4N High Pur | ity Titanium I | Dioxide | | | | | | | | | |
| 4N-T01 | White powder | 99.99 | 100-500nm | 10-30 | Rutile | Crystal growth, Electronic materials | | | | | |
| Nano Titanii | Nano Titanium Dioxide Rutile Grade | | | | | | | | | | |
| BR-T15 | White powder | 99.9 | 15nm | 20-50 | Rutile | | | | | | |
| BR-T25 | White powder | 99.9 | 30nm | 20-50 | Rutile | For electronic materials, bettery, new energe, military project, target materials, ceramic | | | | | |
| BR-T60 | White powder | 99.9 | 60nm | 20-50 | Rutile | Thinks, J. Project, tal governotorials, coralinolis | | | | | |
| BR-T200 | White powder | 99.5 | 200nm | 5-15 | Rutile | High whiteness, High tinting strength. | | | | | |
| BR-T200S | White powder | 85-95 | 200nm | 5-15 | Oleophylic | Used for paint, printing ink, plastic and | | | | | |
| BR-T200H | White powder | 85-95 | 200nm | 5-15 | Hydrophilic | rubber | | | | | |
| BR-T25F | White powder | 88-90 | 25nm | 60-100 | Hydrophilic | Textile sizing, replace PVA, abrasion resistant | | | | | |
| BR-T25S | White powder | 85-95 | 30nm | 20-40 | Oleophylic | Paint, printing ink, plastic, rubber | | | | | |

Packing: 20kgs each fiber drum

Nano Titanium Dioxide Series

| Туре | Apperance | Purity (%) | Particle Size | Specific Surface Area | Type & Surface property | Character and Application | | | | |
|-------------------------------------|--------------|------------|---------------|--------------------------|-------------------------|---|--|--|--|--|
| Nano Titanium Dioxide Anatase Grade | | | | | | | | | | |
| BA-T15 | White powder | 99.9 | 15nm | 60-120 | Anatase | | | | | |
| BA-T18 | White powder | 99.9 | 20nm | 60-120 | Anatase | Good photocatalytic activity, can be used for self-cleaning, antibacterial, catalysator | | | | |
| BA-T60 | White powder | 99.9 | 60nm | 50-90 | Anatase | g,,,, | | | | |
| BA-T200 | White powder | 99.5 | 200nm | 5-15 | Anatase | High whiteness, High tinting strength. Used for paint, electronic materials | | | | |
| BA-T18H | White powder | 90-94 | 20nm | 60-120 | Hydrophilic | Photocatalysis, water base | | | | |
| BA-T18S | White powder | 85-90 | 20nm | 60-120 | Oleophylic | Photocatalysis, oil base | | | | |
| H-J25 | White powder | 99.9 | 20nm | 60-90 | Hybrid | Photocatalysis | | | | |

| Nano Titaniı | Nano Titanium Dioxide for different application | | | | | | | | | | |
|--------------------------|---|------------|---------------|-----------------------|--|---|--|--|--|--|--|
| Туре | Apperance | Purity (%) | Particle Size | Specific Surface Area | Type & Surface property | Character and Application | | | | | |
| BR-T30D For bettery | White powder | 99.9 | 30nm | 20-50 | Rutile | Mixed anode materials. To improve the electrochemical stability and cycle performance of the battery | | | | | |
| BA-T30D For bettery | White powder | 99.9 | 20nm | 60-120 | Anatase | Mixed anode materials and synthesis of lithium titanate. To improve the capacitance and cyclicity of lithium titanate | | | | | |
| BR-T02H For cosmetic | White powder | 89-95 | 30nm | 40-70 | Rutile, Silicon coated, Hydrophilic | Anti-UV, Good dispersion | | | | | |
| BR-T02SG For cosmetic | White powder | 82-88 | 30nm | 40-60 | Rutile, Silicon coated, Silicone Oil, Oleophylic | Anti-UV, Good dispersion | | | | | |
| BR-T25H For cosmetic | White powder | 83-88 | 30nm | 40-70 | Rutile, Si and Al coated, Hydrophilic | Anti-UV, Good dispersion | | | | | |
| BR-T25SY For cosmetic | White powder | 80-85 | 30nm | 40-60 | Rutile, Si, Al and stearic acid coated, Oleophylic | Anti-UV, Good dispersion | | | | | |
| BR-T25SG For cosmetic | White powder | 80-85 | 30nm | 40-60 | Rutile, Si, Al and Silicone Oil coated, Oleophylic | Anti-UV, Good dispersion | | | | | |
| BR-T25Q Car paint | White powder | 99 | 30nm | 50-80 | Rutile, Al and Zr coated | Good dispersion, for car paint | | | | | |
| BR-T06H For paint | White powder | 88-90 | 30nm | 40-70 | Rutile, Hydrophilic | Good dispersion, for water base paint | | | | | |
| BR-T06S For paint | White powder | 88-92 | 30nm | 40-60 | Rutile, Oleophylic | Good dispersion, for solvent base paint | | | | | |
| BR-TG01 | White powder | 99.9 | 10nm | 70-120 | Anatase | For Diatom mud coating, Catalyst coating | | | | | |

Nano Zirconium Dioxide

Specification:

| Туре | Apperance | Crystalline phase | Particle Size | ZrO2 (%) | Y2O3 (%) | Specific Surface Area (m2/g) | Character and Application |
|-----------|----------------|-------------------|------------------|-------------|-------------|---------------------------------|---|
| BZ-R10 | White powder | Monoclinic | 10nm | 99.9 | 0 | 40-70 | Catalyzator |
| BZ-R30 | White powder | Monoclinic | 30nm | 99.9 | 0 | 20-40 | Ceramic, Paint, Refractory materials |
| BZ-R50 | White powder | Monoclinic | 50nm | 99.9 | 0 | 10-30 | Ceramic, Paint, Refractory materials |
| BZ-R30Y3 | White powder | Tetragonal | 30nm | 94.7 | 3mol | 20-40 | Structural ceramics, Refractory materials |
| BZ-R50Y3 | White powder | Tetragonal | 50nm | 94.7 | 3mol | 20-40 | Structural ceramics, Refractory materials |
| BZ-R30Y5 | White powder | Tetragonal | 30nm | 91.5 | 5mol | 20-40 | Structural ceramics, Functional ceramics, Oxygen sensor |
| BZ-R50Y5 | White powder | Tetragonal | 50nm | 91.5 | 5mol | 20-40 | Structural ceramics, Functional ceramics, Oxygen sensor |
| BZ-R30Y8 | White powder | Cubic | 30nm | 86.5 | 8mol | 20-50 | Oxygen sensor, fuel cell |
| BZ-R80Y3R | White granular | Tetragonal | 50-100nm | 94.7 | 3mol | 1 | Granulation, Dental ceramics |
| BZ-R200F | White powder | Monoclinic | 0.2um | 99.9 | 0 | 5-15 | Polishing |
| BZ-R30D | White powder | Monoclinic | 30nm | 99.9 | 0 | 10-35 | Materials for bettery |

Product character:

- 1. Fine particle size and small agglomeration
- 2. Uniform particle size
- 3. High sintering activity and high sintering density

Nano Silicon Dioxide

CAS#: 14808-60-7

M.W: 60.08

Specification:

| Туре | Apperance | Particle Size | Purity (%) | Specific Surface Area (m2/g) | PH | Character and Application |
|----------|--------------|---------------|------------|------------------------------|-----|---|
| BS-SP15 | White powder | 15nm | 99.8 | 250+/-30 | 4-7 | Large specific surface area, High transparency |
| BS-SP20 | White powder | 20nm | 99.5 | 220+/-30 | 7-8 | Porous, Good thickening effect and abrasion resistance for paint |
| BS-SP30 | White powder | 30nm | 99.5 | 220+/-30 | 7-8 | Good dispersion and abrasion resistance for paint |
| BS-SP50 | White powder | 50nm | 99.5 | 200+/-30 | 7-8 | Good dispersion and abrasion resistance for paint |
| BS-SP30S | White powder | 30nm | 99.5 | 150-300 | 1 | Oleophylic, used for paint, plastic, printing ink |
| BS-SP30H | White powder | 30nm | 99.5 | 150-300 | 7-8 | Hydrophilic. Good dispersion in water. Used for paint, latex, paper |
| BS-SP30G | White powder | 30nm | 99.5 | 150-300 | 1 | Hydrophobic. Used for paint, plastic, printing ink |
| BS-SP30F | White powder | 30nm | 99.5 | 150-300 | 7-8 | Good dispersion, High activity. Good for sizing |

Packing: 10kgs each bag

Dosage: 0.5-5%

Nano Magnesium Oxide / Magnesium Hydroxide

CAS#: 14808-60-7

M.W: 60.08

Specification:

| Туре | Apperance | Particle Size | Purity (%) | Specific Surface Area (m2/g) | Character and Application |
|---------|--------------|---------------|------------|------------------------------|--|
| BM-30 | White powder | 30-50nm | 99.9 | 10-30 | Ceramic, plastic/rubber, Paint, Textile additives |
| BM-30D | White powder | 30-50nm | 99.9 | 10-35 | Mixed lithium bettery materials. To improve cycle performance. |
| BM-50 | White powder | 50-80nm | 99.9 | 10-20 | Ceramic, plastic/rubber, Paint, Textile additives |
| BM-100 | White powder | 100-150nm | 99.9 | 10-20 | Ceramic, plastic/rubber, Paint, Textile additives |
| BMH-01D | White powder | 30-50nm | 99.9 | 10-20 | Magnesium hydroxide battery material additive |
| BMH-T01 | White powder | 30-50nm | 99.9 | 10-20 | Fire-retardant |

Packing: 20kgs each bag

Dosage: 0.5-10%

Nano Ag ion for Anti-Bacterial

Specification:

| Type | Apperance | Main content | Ag (%) | Particle Size | Character and Application |
|----------|--------------------|---|-----------|---------------|--|
| AG-T07 | White powder | Nano TiO2 with Ag ion exchanger | 2.0+/-0.2 | 30nm | Anti bacterial for textile and plastic |
| AG-T07P | White powder | Nano inorganic materials and Ag ion complexes | 2.0+/-0.2 | 30nm | Anti bacterial for paint |
| AG-T08 | White powder | Nano inorganic materials and Ag ion complexes | 3.0+/-0.2 | 30nm | Anti bacterial for textile |
| AG-T07L | White emulsion | Nano inorganic materials and Ag ion complexes | Solid 20% | 30nm | Anti bacterial for textile |
| AG-TA33 | Translucent liquic | Nano TiO2 with Ag ion exchanger | 1000ppm | 10nm | Deodorization. Ant bacterial for textile |
| AG-T07LT | White emulsion | Nano TiO2 with Ag ion exchanger | Solid 20% | 30nm | Anti bacterial for paint |

Character:

- 1. Nano antibacterial agent not only has the antibacterial effect of nano titanium dioxide under ultraviolet light, but also has the antibacterial effect of nano silver without light source.
- 2. Nano antibacterial agent particles are uniform
- 3. Nano antibacterial agent is nonvolatile, insoluble and does not pollute the environment

Application:

- 1. All kinds of plastics, refrigerators, washing machines, televisions, cameras, telephones, keyboards, power switches and household appliances
- 2. Various building materials: cement, paint, paint, wallpaper, decorative materials
- 3. All kinds of chemical fiber, clothing materials, shoes, socks, gloves, towels, etc
- 4. Paper Products
- 5. All kinds of toys, stationery, daily necessities, packaging

Dosage: 0.5-2%

Packing: 15kgs each fiber drum

Nano Zinc Oxide

CAS#: 1314-13-2

M.W: 81.37

Specification:

| Туре | Apperance | Particle Size | Purity (%) | Specific Surface Area (m2/g) | Solvent | Character and Application |
|----------|----------------------|---------------|------------|---------------------------------|-----------------------|--|
| ZN-JH05 | White powder | 15nm | 99.9 | 30-50 | 1 | Catalyzator, Formaldehyde removal |
| ZN-J30 | Pale yellow powder | 30nm | 99.9 | 20-50 | 1 | Anti bacterial, Anti-UV, for textile, paint, rubber, plastic |
| ZN-J50 | White powder | 50nm | 99.9 | 10-35 | 1 | Anti bacterial, Anti-UV, for textile, paint, rubber, plastic |
| ZN-J90 | White powder | 90nm | 99.9 | 10-30 | 1 | Anti bacterial, Anti-UV, for textile, paint, rubber, plastic |
| ZN-J30H | Pale yellow powder | 30nm | 92-95 | 20-50 | 1 | Surface treated, Hydrophilic |
| ZN-J50H | White powder | 50nm | 92-95 | 20-35 | / | Surface treated, Hydrophilic |
| ZN-J50L | White powder | 30-50nm | 99.9 | 15-30 | / | Nano AZO, used for conductive material, antistatic |
| ZN-J30W | Pale yellow emulsion | 30nm | 20-30 | / | water | Cortovtile point rubbor printing ink |
| ZN-J50W | White emulsion | 50nm | 20-30 | / | water | For textile, paint, rubber, printing ink |
| ZN-J30HW | Pale yellow emulsion | 30nm | 20-30 | / | water | Surface treated, Good dispersion |
| ZN-J50A | White emulsion | 50nm | 20-30 | / | Isooctyl palmitate | Surface treated, Good dispersion |
| ZN-J30C | Pale yellow emulsion | 30nm | 20-30 | / | Alcohol | For textile, paint, rubber, printing ink |
| ZN-J30M | Pale yellow emulsion | 30nm | 20-30 | 1 | PMA | For coating, paint, printing ink |

Dosage: 0.5-10%

Packing: 15kgs each fiber drum

Nano ATO

Content: SnO2: Sb2O3=90:10 or others

Specification:

| Туре | Apperance | Particle Size | Purity (%) | Specific Surface Area (m2/g) | Solvent | Character and Application |
|----------|-------------|---------------|------------|---------------------------------|---------|---|
| ATO-G06 | Blue powder | 10-20nm | 99.9 | 40-70 | 1 | Resistivity reaches 10 ⁶ -10 ⁸ , Light color transparency, radiation resistance, antistatic, barrier radiation, heat insulation materials, etc. |
| ATO-G06C | Blue liquid | 10-20nm | 20-30 | 1 | Alcohol | Resistivity reaches 10 ⁶ -10 ⁸ , Light color transparency, radiation resistance, antistatic, barrier radiation, heat insulation materials, etc. |
| ATO-G06W | Blue liquid | 10-20nm | 20-30 | 1 | Water | Good stability, transparency and film forming |
| ATO-G06B | Blue liquid | 10-20nm | 20 | / | Ketone | Stable dispersion, antistatic, good film-forming property. Resistivity reaches 106-108 |

Character:

- 1. ATO has good electrical and optical properties. As an antistatic agent, it is widely used in coatings, chemical fibers, polymer films and other fields
- 2. ATO is better than other antistatic materials in terms of activity resistance, thermoplastic, wear resistance, dispersion and safety, such as graphite, surfactant, metal powder, etc. ATO has the characteristics of conductivity, light color transparency, weather resistance, radiation resistance and so on.

Application:

It is mainly used in anti-static plastics, coatings, fibers, anti radiation coatings for displays, energy-saving windows for buildings, solar cells, automobile windshield, photoelectric display devices, transparent electrodes, catalysis, etc.In addition, it can also use its attenuation to microwave, which can be used in computer room, radar shielding protection area and other fields that need to shield electromagnetic waves

Dosage: 1%-3%

Nano Rare earth

| Туре | Item name | Particle Size | Purity (%) | Specific Surface Area (m2/g) | Character and Application |
|---------|---------------------------|---------------|------------|---------------------------------|--|
| RE-Ce01 | Nano Cerium Oxide | 30nm | 99.99 | 30-60 | Precision polishing, Catalyzator and others |
| RE-Ce02 | Nano Cerium Oxide | 50nm | 99.99 | 20-50 | Precision polishing, Rubber heat stabilizer, Ceramics |
| RE-Ce03 | Nano Cerium Oxide | 70nm | 99.99 | 10-30 | Precision polishing and others |
| RE-Ce04 | Nano Cerium Oxide | 200nm | 99.99 | 5-10 | Polishing and others |
| RE-Y01 | Nano Yttrium Oxide | | 99.99 | 30-70 | Catalyzator, Ceramics, Metal additives and others |
| RE-Y02 | Nano Yttrium Oxide | | 99.99 | 10-20 | Catalyzator, Ceramics, Metal additives and others |
| RE-La01 | Nano Lanthanum Oxide | | 99.99 | 30-50 | Catalyst, magnetoresistive material, piezoelectric material and others |
| RE-La02 | Ultrafine lanthanum Oxide | | 99.99 | 1-10 | Catalyst, magnetoresistive material, piezoelectric material and others |

Nano Rare earth

| Product name | Appearance | Particle size | Purity (%) | Character and Application |
|--|--|---------------|---------------|--|
| Nano Tungsten Trioxide | Yellow powder | 30-50nm | 99.95 | Gas sensing materials, petroleum catalysts |
| Nano Dysprosium Oxide | White or pale yellow powder | 40-60nm | 99.95 | Magneto optical storage material |
| Nano Erbium Oxide | ano Erbium Oxide Pink powder | | 99.95 | Yttrium iron garnet additive |
| Nano Gadolinium Oxide | White powder | 40-60nm | 99.95 | Yttrium aluminum and yttrium iron garnet additives |
| Nano Holmium Oxide | Yellow powder | 40-60nm | 99.95 | Catalyzator, Phosphors and laser materials |
| Nano Neodymium Oxide | Nano Neodymium Oxide Purple or blue powder | | 99.95 | Nd-Fe-B permanent magnet material |
| Nano Praseodymium Oxide | Dark brown powder | 40-60nm | 99.95 | Praseodymium yellow and permanent magnet |
| Nano Samarium Oxide Pale yellow powder | | 40-60nm | 99.95 | Electronic components and ceramic capacitors |
| Nano Terbium Oxide Tan powder | | 40-60nm | 99.95 | Magneto optic material |
| Nano Ytterbium Oxide White or pale yellow powder | | 40-60nm | 99.95 | Catalyzator, Phosphors and laser materials |

Nano Ferric Oxide / Ferroferric Oxide

| Туре | Item name | Item name Appearance | | Purity (%) | Specific Surface Area | Character and Application |
|----------|--|------------------------------------|---------|------------|--------------------------|-------------------------------------|
| FE-E01 | Nano Ferric Oxide | Red powder | 20-30nm | 99.9 | 90-150 | Heat resistance and rust prevention |
| FE-E02 | Nano Ferric Oxide | Yellow powder | 30-40nm | 99.9 | 50-80 | Magnetic material and others |
| FE-EF01 | Nano Ferroferric Oxide | ano Ferroferric Oxide Black powder | | 99.9 | 10-20 | Magnetic material and others |
| FE-EF02 | Nano Ferroferric Oxide | Black powder | 50nm | 99.9 | 5-15 | Precision polishing and others |
| FE-E01W | Nano Ferric Oxide | Red liquid | 20-30nm | 20 | 1 | Heat resistance and rust prevention |
| FE-E02W | Nano Ferric Oxide | Yellow liquid | 30-40nm | 20 | 1 | Magnetic material and others |
| FE-EF01W | / Nano Ferroferric Oxide Black liquid | | 10-20nm | 20 | 1 | Heat resistance and rust prevention |
| FE-EF02W | -EF02W Nano Ferroferric Oxide Black liquid | | 50nm | 20 | 1 | Precision polishing and others |