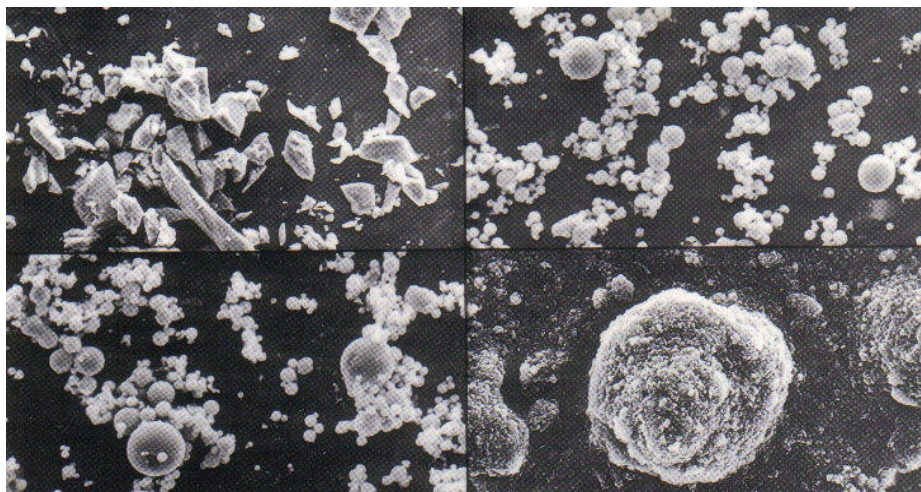


## SUB-FINE METAL POWDER

Sub-fine Metal Powders include sub-fine Zinc Powder, High Purity Manganese Powder, Low Density Nickel Powder, Ultrafine Aluminum Powder, Ultrafine Boron Powder, etc. These powders have the characteristics of high chemical activity, narrow particle size distribution range, low impurity content, safe and reliable functions. They have applications in chemical, energy, conservation, medicine, electronics aerospace industries, etc.



POWDER	TYPICAL CHEMISTRY,%	POWDER CHARACTERISTICS & APPLICATION
TSAI Spherical Ultrafine Aluminum Powder	Fe: < 0.05 Si: < 0.1 Cu: < 0.01	Particle Size: 0.2~1.0 $\mu$ m ( adjustable), Apparent Density: 0.09~0.20g/cm <sup>3</sup> Burning Point in atmosphere: 550°C (approximate) * Regular appearance, high chemical activity, large exothermic value when burring and low impurity contents; * Widely applied as catalyst, stabilizer, exothermic agent & additive to composite materials in chemical, mechanical, space, electronic & metallurgical industries.
TSBO Ultrafine Boron Powder	Amorphous: 90~95 Crystal: 95~98	Average Particle Size: Amorphous: 0.3~0.6 $\mu$ m, Crystal: 1~1.5 $\mu$ m * High chemical activity, stable in air and at atmosphere temperature; * Mainly applied to smelting of qualified steel, manufacturing of special boron alloy, new type cermet, control rods of atomic reactor & solid fuel of rocket; * Good as catalyst of organic chemical reaction and raw materials for electronic and medical industries, etc.
TSMn High Purity Manganese Powder	S < 0.02 Fe < 0.05 O < 0.55 Others < 0.03 Mn > 99.5%	Average Particle Size: 5~6 micron Scott Density: 2.7~3.1g/cm <sup>3</sup> Sieved Size: +325 mesh < 2%, -325mesh > 98% * Mainly used as alloy additives and deoxidants
TSNi Low Density Nickel Powder	Ni > 99.5	Particle Size: 0.02~0.1 $\mu$ m 0.1~1 $\mu$ m 1~>10 $\mu$ m Apparent Density: 0.6~0.8 g/cm <sup>3</sup> * Good for production of chemical cell and hydrogen storage materials; * Used as catalyst of chemical reactions & burning stabilizer of rocket fuel and raw materials of high temperature alloy and cement carbide
TSZn Sub-fine Zinc Powder	Pb < 0.2 Cr < 0.2 Fe < 0.2 Substance insoluble in acid < 0.2 Zn (total) > 98 Zn (metal) > 94	Particle Size: < 45 $\mu$ m, 80%<10 $\mu$ m Average Particle Size: < 6 $\mu$ m Sieved Size: 125 $\mu$ m < 0.0% 90 $\mu$ m<0.1% 45 $\mu$ m < 3.0% * Fine particle size, high chemical activity and low content of impurities; * Good as reductant, widely applied to metallurgical, chemical & medical industries; * Excellent raw materials for producing zinc containing paint and rongalite