

The invention relates to the methods for producing fine metal powders and can be used for manufacture of composite materials, tools, solar panels, filters, lube oil additives, pigments, components of high-strength solders etc. In a method of producing fine metal powders, including dispersion of an initial material by exposure to high-voltage pulsed discharge in liquid with parameters preliminarily set depending on the tensile strength of initial material, according to the invention, impact is performed with a voltage of ≥ 50 kV and a discharge circuit inductance of ≤ 0.5 μ H with specific energy of 700 to 2000 kJ/l. The technical result will allow to affect the processed metal powders by high-voltage pulse shocks with parameters of peak pressure exceeding the material strength parameters and with a specific energy, which will ensure development of radial cracks in majority of the material particles, and thus provide a high degree of dispersion and obtaining a powder with large content of fine fractions.