



# TANTALUM

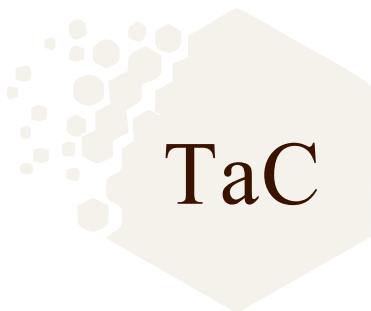
CARBIDE POWDER

Tantalum carbide (TaC) is an extremely hard refractory ceramic material. The hardness is only exceeded by diamond. It is a heavy, brown powder usually processed by sintering and an important cermet material. It is sometimes used as a fine-crystalline additive to tungsten carbide alloys. TaC powder is used in wear surface (wear resistant) parts and coatings. Parts and coatings that undergo fretting, abrasion and particle erosion such as cyclones, fan blades, turbine blades, liners, chutes, hoppers and feeders. Tantalum carbide is used as a coating for parts requiring corrosion resistance such as vessels, piping, valves, and turbine blades.



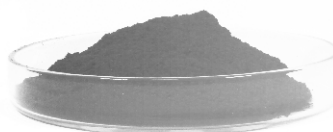
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# APPLICATIONS

- ✓ Tantalum carbide acts as a grain growth inhibitors
- ✓ It is also used as a coating for steel moulds
- ✓ Provides low friction mould surface
- ✓ Used in the production of sharp instruments
- ✓ Cutting tools



## SPECS

- ✓ Purity: 99.9%
- ✓ Molecular Weight: 192.96 g/mol
- ✓ Color: Gray
- ✓ Density: 14.30g/cm<sup>3</sup>
- ✓ Melting Point: 3,880° C

Boiling Point: 4,780° C

**All types of particles size are available in micro and nano range.**

CATALOGUE NO.

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