

Tungsten carbide (TC) is an inorganic chemical compound that contains equal numbers of tungsten and carbon atoms. It is sometimes colloquially referred to as simply "carbide." In its most basic form, Tungste Carbide is one type of fine gray powder, but it can be pressed and formed into shapes for use in industrial machinery, tools and abrasives.

The notable and rare combination of physical properties possessed by tungsten carbide makes it useful for a variety of applications. It is extremely strong and wear-resistant. There are only a few materials on earth that can be used to cut or engrave it, with industrial diamond abrasives being one of these. Its tensile strength is very high, but it is brittle under high pressures as a result.