

DURMAT[®] CS

General characteristics:

DURMAT CS consists of sintered tungsten carbide fragments in a ductile Cu-Ni-Zn matrix. The alloy exhibits a tensile strength of 100,000 psi. DURMAT-CS production methods ensure an homogeneous distribution of the sintered tungsten carbide particles. DURMAT-CS composite rods are available in two grades: Wear resistant and cutting.

Application:

Downhole reamers, openers, fishing tools (spears), coring tools, reamers, milling tools and stabilizers.

Welding recommendation:

The area to be hard faced should be free of rust, scale, grease or other contamination. Slowly preheat the area to a maximum of 500°C (932°F). Sprinkle the surface with DURMAT Flux to prevent oxides from forming in the molten matrix during application. Once the area is properly heated, start brazing with DURMAT TINNING RODS (about 1mm layer). Now apply DURMAT CS. To facilitate the operation dip the end in brazing flux.

NOTE: Do not overheat the hard faced area. Particles can be arranged in correct position and dense configuration by using the end of the DURMAT-Tinning Rod. Slow cooling is advised. **Never cool area with water!**

Carbide content:

Standard percentage: 60 %.
Other percentages available are: 40 %, 50 % or 70 %.

Sales units:

Carbide grain sizes:	1/16 x 1/8	1,5 → 3,20
	1/8 x 3/16	3,2 → 4,70
	3/16 x 1/4	4,7 → 6,4
	1/4 x 5/16	6,4 → 7,9
	5/16 x 1/2	7,9 → 12

Other grain sizes are available on request.

Standard composite rod length: 450mm (18")