

## SUPERALLOY 7000 TCC

Superalloy 7000 TCC is an extremely high wear resistance alloy containing complex carbides. The primary carbide is Tungsten in tube metal with Niobium, Chromium, Titanium, Vanadium, Molybdenum etc as secondary carbides.

### Applications:

Provides exceptionally high wear resistance to abrasion, erosion and friction when steel parts are coated with this material. Alloy can be deposited in dots, dashes and stripes without breaking arc to provide high wear resistant wear pads. Complex carbides provide full hardness in the 1" layer of over 63 HRC. Application include Dragline bucket lips, bulldozer blades, shovel teeth, Muller plows, Dredger cutters, Coal chutes, Bed knives etc.

### Procedure:

Remove damaged or fatigued metal. Preheat of 250°C will needed while applying to large sections. Hold electrode at 45° angle in the direction of travel and deposit on previously made weld. One layer is enough for most application. High interpass temperature is recommended for more than one layer. Do not preheat deposit or weld over a previous deposit already cooled.

|                                    |   |   |           |
|------------------------------------|---|---|-----------|
| <b><u>Technical Data</u></b>       | : | <b>SUPERALLOY 7000 TCC</b>                          |           |
| Size (mm), Ø                       | : | 4.00  | 5.00      |
| Recommended Welding Current (Amps) | : | 90 – 120  | 100 – 225 |
| Hardness                           | : | 66 – 70 HRC ( I Layer )<br>63 - 65 HRC ( II Layer ) |           |
| Tip Colour                         | : | Green   |           |

### DIFFUSION ENGINEERS LIMITED

Regd. Office & Works I : T-5/6, M.I.D.C, Hingna Industrial Area, Nagpur-440 016, (T) 091-7104-232084, 234727 (F) 232085

Works II : N-78/79, MIDC, Hingna Industrial Area, Nagpur – 440 016. (T) 091-7104-236036

Works III : T-12, MIDC, Hingna Industrial Area, Nagpur – 440 016.(T) 091-7104-232984

Email : info@diffusionengineers.com Website : www.diffusionengineers.com

Branch Offices : Chennai, Faridabad, Jamshedpur, Pune, Raipur, Secunderabad, Vadodara.