

GEMET 343

IDENTIFICATION

Gemet 343

DESCRIPTION

Gemet 343 is high Niobium - Chromium Carbide alloy specially designed to resist high stress grinding abrasion wear with moderate impact, even at elevated temperatures of 450°C. The deposit will exhibit surface relief checks.

- Basic coated SMAW electrode for hardfacing.
- Surfacing of parts subjected to heavy abrasion with moderate impact.
- Service temperature: max. 450°C.
- Quiet and regular fusion.

ALLOY BASIS : C, Si, Cr, Nb

TYPICAL APPLICATIONS

- Cement presses,
- Brick presses,
- Refractory press-screws,
- Conveyor screws,
- Mixer blades,
- Palm nut press-screws, etc.

WELD METAL PROPERTIES :

- **STRUCTURE** : Austenite with Nb & Cr carbides
- **HARDNESS**:
 - 1 layer : 62 HRc approx
 - 2 layer : 63 HRc approx
 - 3 layer : 64 HRc approx
- **MACHINABILITY** : By grinding
REDRYING : Min. 1 hr at 300°C

PACKING PARAMETERS

Size (mm)	Length (mm)	Current Condition DC (+/-) & AC Amps	Packing / Packet (kg)	Packing / Box (kg)
3.15 / 3.20	350	110 - 140	2	2 x 5 = 10
4	350	140 - 190	2	2 x 5 = 10
5	350	190 - 250	2	2 x 5 = 10