

# GEMET 3743

## IDENTIFICATION

Gemet 3743

## DESCRIPTION

- 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.
- 190% recovery.

## WELD METAL ANALYSIS (RANGE) %

C	Mn	Si	Cr + Nb
5.5 - 6.8	1.0 - 1.75	1.0 - 1.75	30.0 - 35.0

## MECHANICAL PROPERTIES OF WELD METAL (RANGE) %

- **STRUCTURE:** Austenite with Nb & Cr carbides
- **HARDNESS:** 61 - 64 HRC
- **WEAR COEFFICIENT:** 0.5 % (2 layer deposit, SiO<sub>2</sub> as abrasive)
- **MACHINABILITY:** By grinding

**REDRYING:** Min. 1 hr at 300°C

## TYPICAL APPLICATIONS

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

## 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