



LOTHERME



LoTherme - 514

Outstanding electrode for welding Ni-Cr-Mo-W-Co alloys and for surfacing application with strength and heat & oxidation resistance up to 1000°C.

Characteristics :

LoTherme-514, a non-synthetic electrode is specially developed to produce high nickel deposit containing carefully controlled quantities of Chromium, Molybdenum, Tungsten and Cobalt. Progressively work hardens.

The welds are Characterised By :

1. Suitable for welding / cladding on Nickel alloys like Hast Alloy, Inconel to themselves & with any other steels.
2. Excellent heat resistance, strength and toughness up to about 1000°C.
3. High resistance to corrosion by most types of acids or their Combinations.
4. Good thermal shock resistance.
5. Good machinability. Progressively work hardens to 400 BHN to retain hardness even at elevated temperatures.

Applications :

LoTherme-514 is ideally suited for welding Ni-Cr-Mo alloys to themselves, to other metals and for surfacing steel with Ni-Cr-Mo deposit. Applications in this category include valves, pumps, etc. It is thus highly suited for hot working tools, e.g. shear blades, forging dies, punches, hot trimming dies, heating elements, etc. Ideally suited to extreme chloride environment.

Typical Mechanical Properties Of All Weld Metal :

Ultimate Tensile Strength : 686 MPa

Elongation (L=4d) : 28 %

Work hardens under impact up to : 400 BHN

Welding Technique :

Dry the electrode at 250°C for one hour before use. Use low current, short arc and stringer beads. Wherever possible weld in flat position.

Current Conditions : DC(+)

Size (mm)	5x350	4x350	3.15x350	2.5x350
Dia x Length				
Current Range	150-180	110-150	80-100	70-90
(Amps)				