



TFMS 13A

LASER CLADDING REPAIR OF
HYDRAULIC SUPPORT COLUMNS
AND ROLLERS





Compared to traditional hard chrome plating, laser cladding offers metallurgical advantages. It also helps reduce overall operating costs by extending service life.

TFMS 13A is an alloy powder with good wear and corrosion resistance. Laser cladding allows for hardnesses up to 53 - 55 HRC. It is widely used in the repair of hydraulic columns and rollers.

Range of chemical composition

C	Cr	Ni	Mo	Mn	Si
≤0.17	≤17.5	≤2.60	≤1.80	≤0.35	<0.8

Physical properties

Granularity range	53-150 μm
Hardness	53-55 HRC
Hallflow rate	≤18 s/ 50 g
Loose packing density	4.48 g/cm ³

Corrosion resistance test

Neutral spray test GB / T 10125 - 2021	3000
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