NIMOTEN PLUS 535

CLASSIFICATIONS

AWS A/SFA 5.5 E 11016 G (nearest)

IDENTIFICATION: Name Printed

CHARACTERISTICS

A medium-heavy-coated hydrogen-controlled electrode depositing low alloy weld metal. Developed specially for joining and overlay work for the steel mills and forging industry. The weld deposit approx. contains 2.5% Cr, 2% Ni, 1.25% Mo & 0.15% V, giving a tensile strength of over 950 N/mm² which can be also raised to $1100\,$ N/mm² by suitable heat treatment. The electrode give smooth arc, less spatter, and easily detachable slag. Three layered weld deposit gives hardness up to 320 BHN approx. The electrode gives radiographic quality welds. Can be used in all positions.

CURRENT CONDITIONS: AC (90V) or DC (+)

6.3 5.00 4.00 3.2 260-320 190-230 140-180 100-130

COATING TYPE: Basic

WELDING POSITIONS

F, H, V-up, OH

REDRYING CONDITIONS

300°C for 1 hour

TYPICAL APPLICATIONS

Forging dies for filling all types of die impressions. Machinery parts made of high tensile steel, parts of earth moving equipment. Automative parts and certain grades of armour steel, chemical plants where Ni-Cr-Mo steels are used. Steam turbine rotors in service up to 538°C. Repair of case-hardening steel parts after removing the hard zone for repairing cracks in Ni-Cr hot working dies.

WE	WELD METAL CHEMISTRY, wt%										
С	-	0.07-0.09	Cr	-	2.50-3.00	V-0.10-0.20					
Mn	-	1.20-1.70	Ni	-	1.80-2.20	S-0.03 max					
Si	-	0.15-0.25	Мо	-	1.00-1.50	P-0.03 max					
Diffusible H ₂ content <5 ml / 100gm											

MECHANICAL PROPERTIES- ALL-WELD							
Condition	UTS	YS	% Elongation				
As-welded	MPa 950-1100	MPa 860-980	(L = 4xd) 16 min	BHN 260-330			

PACKING DATA									
Dia., mm Length, mm Pcs per carton, Nos Cartons / box Pcs per box, Nos Approx. Wt. of 1000 pcs,kg	6.3 450 34 4 136 147	5.0 450 53 4 212 94	4.0 450 86 4 344 58	3.2 450 127 4 508 39					



WELDERS TO THE NATION SINCE 1951



(Formerly Known as Advani-Oerlikon Ltd.)

