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Stick electrode, nickelbase alloyed

Classifications					
AWS A5.11 / SFA-5.11	EN ISO 14172				
E NiCrMo-6	E Ni6620 (NiCr14Mo7Fe)				
Characteristics and typical fields of application					
The high-efficiency nickel-base stick electrode UTP Soudonel D is es Recovery is 150%. The typical application field is welding of cryogen Gas I NG 5% Ni steels for Liquefied Ethylene Gas I FG. UTP Soudone	specially suited for welding cold-tough nickel steels, such as X8Ni9. ic gas storage tanks and tankers (9% Ni steels for Liquefied Natura el D is designed for improved weldability on AC-current in order to				

avoid the magnetic arc blow effect which occurs when welding cold-tough nickel steels on DC. The electrode is weldable in flat, horizontal and vertical-up position. It shows a stable arc, low spatter, easy slag-removal and good bead appearance. **Typical analysis** С Si Cr W Nb Fe Mn Ni Мо wt.-% 0.05 0.3 3.5 14.0 Bal. 6.5 1.1 0.7 7.5 Mechanical properties of all-weld metal - typical values (min. values)

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Condition	Yield strength $R_{p0.2}$	Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Impact energy ISO-V KV J			
	MPa	MPa	%	-196°C			
u	≥420	≥690	>35	≥ 50			
u untroated as wolded							

u untreated, as well

Operating data							
	Polarity	DC+/AC	Dimension mm	Current A			
	Redrying	2-3 h / 250-300 °C	2.5 × 350	70 - 110			
			3.2 × 350	90 - 150			
			4.0 × 350	130 - 190			
			5.0 × 450	180 - 230			

Welding instructions

The weld zone must be clean and properly degreased. Weld with a short arc and sufficiently high amperage settings. To avoid end crater cracks, the crater must be properly filled, the arc drawn away to the side.

Approvals

TÜV (05466), BV, DNV