

Union X 90

Solid Wire, low-alloyed, high strength

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Classifications										
EN ISO 16834-A					AWS A5.28 / SFA-5.28					
G 89 6 M21 Mn4Ni2CrMo					ER120S-G					
Characteristics	and typical field	is of a	pplication							
steels with yield s Due to the micro-a	trength of 890 MPa.	weld n	netal is outsta	andingly to	ugh with I	high-	strength and go		ne-grained structural ce to cold cracking at low	
Base materials	;									
S890Q, S890QL, S S890MC; USS-T1; ASTM A 709 Gr. 10	3890QL1; D0 Type B, E, F, H, Q,	HPS 10	00W							
Typical analysi	s									
	C	Si		Mn		Cr		Ni	Мо	
wt%	0.10 0.80			1.80		0.35		2.25	0.60	
Mechanical pro	operties of all-we	eld me	etal - typica	al values	(min. va	alue	s)			
Condition	R _{p0.2} R _m		ile strength Elong (L ₀ =5		on A	Impact energy ISO-V			Shielding gas	
	MPa	MPa		%	2		°C	-60°C		
u	915 (≥ 890)	960 (≥ 940 - 1180)		20 (≥ 15)	130		≥ 47	M21	
u untreated, as w	elded									
Operating data										
<u>► † † </u>	Polarity		DC+			Dimension mm				
Shielding gas (EN ISO 14175)			M20 M21			0.8 1.0				
							1.2			
Approvals										
TÜV (07675) DB (42.132.12), DNV, CE									