



Solid wire, high-alloyed, austenitic stainless, special applications

EN ISO 14343-A		AWS A5.9 / SFA-5.9							
18 8 Mn					ER307 (mod.)				
Characteristic	s an	d typical fields o	of application						
850°C. Suited for	fabrio	cating dissimilar au	ining heat resistant C stenitic-ferritic joints a r example exhaust sys	ıt a r	nax. application	n tempe	ature of 300°C.	Very well	suited für joining o
Base material	s								
steels, 13 – 17%	chroi		issimilar joints, tough stant steels up to 850° etc.						
Typical analys	is								
	C S		Si		Mn		Cr		Ni
wt%	0.08 0		0.8	8 7.0			19	1	8.2
Mechanical p	opei	ties of all-weld	metal - typical va	lues	s (min. value	s)			
Condition	Yield strength R _{p0.2}		Tensile strength F	Tensile strength R _m Elongation A		(L ₀ =5d ₀) Impact energy ISO-V KV J			
		MPa	MPa		%		20°C		-110°C
u	430 (≥350)		640 (≥600)	640 (≥600) 42 (≥35)		(≥ 110)			(≥32)
u untreated, as w	elded	- shielding gas Ar	+ max. 2.5% CO ₂						
Operating dat	a								
× † †	Polarity		DC+	DC+		Dimension mm			
		elding gas	Ar + max. 2.5% (Ar + max. 2.5% CO ₂		0.8	0.8		
× • • •	(EN	I ISO 14175)				1.0			
						1.2			
						1.4			
			1.6						
Preheating and ir	nterpa	ss temperature as r	required by the base n	netal	l.				
Approvals									
DB (43.132.44), (