

diamondspark S 550 HP - UV 400

SAW-flux cored wire/flux combination, high strength

Classifications

EN ISO 14171-A	AWS A5.23 / SFA-5.23						
S 50 6 AB TZ3Ni1Mo H5	F9A8-ECNi5-Ni5						

Characteristics and typical fields of application

diamondspark S 550 HP - UV 400 is a wire flux combination for joint welding of of pipe steels API-5L X70 and other high-strength, quenched and tempered fine grained structural steels up to MSYS = 550 MPa. The weld metal demonstrates very good toughness at low temperatures and good strength properties, which allows to weld with relative high heat-input at high welding speed resulting in high productivity with a good bead appearance, nice fusion and good slag detachability. The seamless cored wire has a high deposit rate (~13 kg/hr for single wire 3,2 mm, 750 Amp, DC+). The wire is not sensitive to moisture pick up, has a good resistance to deformation (wire feed rollers) and is very easy to straighten to ensure the best current transfer with low contact tip consumption. UV 400 is an aluminate-basic flux. For more flux properties see separate datasheet of the flux.

Base materials											
API 5 LX65, X70											
Typical analysis											
wt%	С		Si	Mn			Ni		Мо		
all-weld metal	0.06		0.4	1			0.9		0.3		
Mechanical properties of all-weld metal - typical values (min. values)											
Condition	Yield strengthTensile strengthEld $R_{p0.2}$ R_m (L_d)		Elon (L ₀ =	ngation A Impact ene =5d ₀)		ergy ISO-V KV J					
	MPa		MPa	%		-60 °C		-40 °C		-20 °C	
u, DC+	605 (560)		680 (620-720)	22 (18)		55 (47)		135 (47)		160 (47)	
u, AC	630 (5	60)	710 (620-750)	22 (1	18)	80 (47)	140 (47)			160 (47)	
u untreated											
Operating data											
Polarity	DC / AC				Dimension mm						
Polarity		DC + / AC									
Approvals											

All information provided is based upon careful investigation and intensive research. However, we do not assume any liability for correctness and information is subject to change without notice.