

diamondspark S 550 HP - UV 422 TT-LH

SAW-flux cored wire/flux combination, high strength

Classifications

 EN ISO 14171-A
 AWS A5.23 / SFA-5.23

 S 50 6 FB TZ3Ni1Mo H4
 F9A8-ECNi5-Ni5-H4

Characteristics and typical fields of application

diamondspark S 550 HP - UV 422 TT-LH 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 wire has a high deposit rate (~13 kg/ hr for single wire 3,2 mm, 750 Amp, DC+). The seamless coppered 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. Low level of diffusible hydrogen (max 4 ml/100 gr according to ISO 3690).

UV 422 TT-LH is an agglomerated fluoride-basic flux with high basicity, neutral metallurgical behavior and very low level of diffusible hydrogen. For information regarding this welding flux see our detailed data sheet.

Base materials

API 5 LX65, X70

Typical analysis							
wt%	C	Si	Mn	Ni	Мо		
all-weld metal	0.07	0.4	1.4	0.9	0.3		

Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength R _{00.2}	Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Impact energy ISO-V KV J		
	MPa	MPa	%	-60 °C	-40 °C	-20 °C
u, DC+	590 (560)	670 (620-720)	24 (18)	80 (47)	130 (47)	150 (47)
u untreated						

Operating data

opening in						
	Polarity	DC / AC	Dimension mm			
	Polarity	DC + / AC				

Approvals

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