

# Union S 1 CrMo 2 - UV 420 TT-LH

SAW wire/flux combination, low-alloyed, creep resistant

## Classifications

EN ISO 24598-A	AWS A5.23 / SFA-5.23
S S CrMo2 FB	F8P2-EB3R-B3-H8

#### Characteristics and typical fields of application

Union S 1 CrMo2 – UV 420 TT-LH is a wire-flux combination for submerged-arc welding of creep resistant steel grades with 2,25% Cr – 1% Mo. The very good welding behavior in narrow gap joint configurations without limitation in thickness. UV 420 TT-LH is a fluoride-basic flux with high basicity and neutral metallurgical behaviour, designed for welding with DC+ polarity with

a low level of diffusible hydrogen. For information regarding welding flux UV 420 TT-LH see our detailed data sheet.

### **Base materials**

1.7380 10CrMo9-10, 11CrMo9-10, 12CrMo9-10

A335 Gr. P22, A387 Gr.22, A542BCl4 and other similar steel grades.

#### Typical analysis

<b>31 3</b> .						
wt%	С	Si	Mn	Cr	Мо	Х
wire	0.12	0.08	0.55	2.5	1.0	< 10
all-weld metal	0.08	0.25	0.7	2.3	0.95	

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

Condition	Tensile test Temperature	Yield strength $\mathrm{R}_{\mathrm{e}}$	Tensile strength R <sub>m</sub>	Elongation A $(L_0 = 5d_0)$	Impact energy ISO	-V KV J
	°C	MPa	MPa	%	-30°C	-20°C
a1, DC+	+20	490 (≥ 470)	600 (≥ 550)	24 (≥ 16)	≥ 27	≥ 47
a1 = 1 hour 690 °C						

#### Operating data

	Polarity	DC +	Dimension mm
			1.6
			2.0
			2.5
		3.0	
		4.0	
			5.0
Annrovals			

TÜV (05209), DB (51.132.02), CE