

SAW flux, fluoride-basic type

Classification

EN ISO 14174

SA FB 1 55 AC H5

Characteristics and typical fields of application

UV 419 TT-W is an agglomerated fluoride-basic flux for submerged arc welding of unalloyed and low alloyed steel grades. The basic flux has a neutral metallurgical behaviour regarding to Mn and Si, and is mainly recommended for multi-run procedures for relative great wall thickness. Nice flat bead appearance with very good slag detachability, especially in narrow gap applications.

Metallurgically, the flux has been optimised to provide excellent mechanical properties as well after PWHT-duration as also in as welded condition.

The flux generates a low amount of diffusible hydrogen content HD < 5 ml/100gr according to ISO 3690 in the weld metal.

Flux properties	
Grain size (EN ISO 14174)	3 – 20 (0.3 – 2.0 mm)
Basicity (Boniszewski) wt%	2.6
Polarity	DC+ ; AC
Flux consumption	0.9 - 1.1 kg flux per kg wire
Apparent Density	1 kg/dm3
Redrying conditions	300 – 350°C, min 2 hrs
Diffusible hydrogen (ISO 3690)	<u>s</u> 5 ml / 100gr (as produced / re-dried).

Composition of sub-arc welding flux (weight %)				
SiO ₂ +TiO ₂	CaO+MgO	Al ₂ O ₃ +MnO	CaF ₂	
15 %	35 %	21 %	26 %	
Tunical wires to combine				

Typical wires to combine				
SAW wires	AWS	EN ISO		
Union S 3 Si	A5.17 : F7A8/F7P8-EH12K	14171-A : S 46 6 FB S3Si		
Union S 2 Mo	A5.23 : F8A6/F8P6-EA2	14171-A : S 46 4 FB S2Mo		
Union S 2 CrMo 1	A5.23 : F8P2-EB2R-B2	24598-A : S S CrMo 1 FB		
Union S 3 NiMo1	A5.23 : P9A8/F9P8-EF3-F3	26304-A : S 55 6 FB S3Ni1Mo		

Packaging formats	
Туре	Weight (kg)
DRY SYSTEM (bag)	25