

EL8

Conformance

AWS A5.17 EL8

Typical Application

- Using with sintered flux SJ301 and 501
- Applied both for high speed welding steel plate of tensile strength 420MPa and filling welding

Mechanical Properties

Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Impact Energy (J)	Impact Temperature (°C)
550	450	26	116, 108, 110	-20

Chemical Composition %

C	Mn	Si	S	P	Ni	Cr	Cu
0.060	0.45	0.012	0.014	0.020	0.022	0.017	0.113

Reference

Flux	SJ301			
Diameter(mm)	2.5	3.2	4.0	5.0

EM12

Conformance

AWS A5.17 EM12

Typical Application

- Using with sintered flux SJ101
- Applied both for high speed welding steel plate of tensile strength 420MPa and filling welding

Mechanical Properties

Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Impact Energy (J)	Impact Temperature (°C)
415~550	≥330	≥22	≥27	-20

Chemical Composition %

C	Mn	Si	P	S	Ni	Cr	Cu
0.066	0.96	0.038	0.010	0.007	0.011	0.027	0.110

Reference

Flux	SJ101			
Diameter(mm)	2.5	3.2	4.0	5.0