

E7015

Conformance

AWS A5.1 E7015

Typical Application

- Applied in welding medium-carbon steel and low-alloy structures
- Used in shipbuilding such as A, B, D, E. It is also used in thick steel plates and the carbon steel structures

Mechanical Properties

Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Impact Energy (J)	Impact Temperature (°C)
550	440	30	140	-30

Chemical Composition %

C	Mn	Si	S	P	Ni	Mo	Cr	V
0.087	1.12	0.58	0.012	0.021	0.011	0.007	0.028	0.016

Reference

Diameter (mm)	2.0	2.5	3.2	4.0	5.0
Type of Current	DC ⁺				
Current(A)	50~80	60~100	80~140	110~220	160~230

E7016

Conformance

AWS A5.1 E7016

Typical Application

- Mainly for welding carbon steel or low alloy steel
- Welding ships which used A, B, C, D E grade steel, and the important frame for the relative strength grade vehicles, construction and bridges.

Mechanical Properties

Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Impact Energy (J)	Impact Temperature (°C)
550	450	31	170	-30

Chemical Composition %

C	Mn	Si	S	P	Cr	Ni	Mo	V
0.069	1.11	0.53	0.009	0.020	0.037	0.013	0.002	0.010

Reference

Diameter (mm)	2.0	2.5	3.2	4.0	5.0
Type of Current	AC/DC ⁺				
Current(A)	40~70	50~90	80~140	110~210	160~230