

# TECHNIWELDUSA

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## TYPICAL MATERIAL TEST REPORT

ITEM CLASSIFICATION	
ALLOY	SPECIFICATION
E312-16	AWS A5.4
APPLICATIONS	
Typically used for the welding of high tensile alloys to high temperature heat-resisting alloys. Can also be used in the welding of high yield, abrasion resistant, and dissimilar steels.	

TYPICAL CHEMICAL COMPOSITION						
	ELEMENT	C	Ni	S	Cr	
	AVERAGE	0.12	9.40	0.022	29.30	

	ELEMENT	Mn	Si	P	
	AVERAGE	1.80	0.56	0.021	

TYPICAL MECHANICAL PROPERTIES			
	Tensile Strength	Yield strength	Elongation
	(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )	%
	78,000 psi	109,000 psi	23%