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TYPICAL MATERIAL TEST REPORT

ITEM CLASSIFICATION	
ALLOY	SPECIFICATION
E7018-H4R	AWS A5.1
APPLICATIONS	
For use in maintenance applications including welding of all types of carbon-manganese steels, high tensile, heavy structures, plants and subject to static or dynamic loading Can be used as a buffer layer before hard facing	

TYPICAL CHEMICAL COMPOSITION						
ELEMENT	C	Si	Mn	P	Cr	
AVERAGE	0.10	0.75	0.80 – 1.60	0.030	0.20	

ELEMENT	Ni	Mo	V	S		
AVERAGE	0.30	0.30	0.08	0.030		

TYPICAL MECHANICAL PROPERTIES			
	Tensile Strength	Yield strength	Elongation
	(N/mm ²)	(N/mm ²)	%
	520,000 – 600,000 psi	450,000 – 520,000 psi	24 – 32%