Alloy: COREWELD ST12 | Class: ERCoCr-B

ERCoCr-B

CERTIFIED TO
AWS A5.21
ASME SFA A5.21

AWS CHEMICAL COMPOSITION REQUIREMENTS | DEPOSITED CHEMICAL COMPOSITION % (TYPICAL)

AWS REQUIREMENT (%)	
C	1.2 – 1.7
Mo	1.0 max
Mn	1.0 max
Fe	3.0 max
Si	2.0 max
W	7.0 – 9.5
Cr	26 – 32
Co	Remainder
Ni	3.0 max
Other	0.50 max

DEPOSITED CHEMICAL COMPOSITION % (TYPICAL)

TYPICAL DEPOSIT (%)	
C	1.5
Mo	0.1
Mn	0.06
Fe	2.3
Si	1.3
W	8.5
Cr	30.4
Co	Balance
Ni	2.2

DESCRIPTION

Type 12 bare rod develops high hardness, abrasion resistance and good corrosion resistance. These properties make Type 12 the choice for cutting wood saws and bars, and for industrial cutting applications in the carpet, plastics, paper and chemical industries. It is non-forgeable and can be machined with difficulty using carbide tools. Type 12 bonds well to all weldable grade steels, including stainless.

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