# HASTELLOY<sup>®</sup> X RTW<sup>™</sup> Filler Metal

## **Product Description:**

HASTELLOY<sup>®</sup> X RTW<sup>™</sup> filler metal is used for the gas metal arc and gas tungsten arc welding of X alloy. The deposited weld metal has an exceptional combination of oxidation resistance, fabricability and high-temperature strength. It has also been found to be exceptionally resistant to stress-corrosion cracking in petrochemical applications. X alloy exhibits good ductility after prolonged exposure at temperatures of 1200, 1400, and 1600°F (650, 760, and 870°C) for 16,000 hours. The filler metal is also a good candidate for dissimilar welding between solid solution nickel-based alloys and Ni-Fe-Cr alloys. The RTW<sup>™</sup> finish on the spooled wire promotes smooth feeding through welding equipment and reduced tip wear I contact tips.

## **Specifications:**

AWS A5.14 ERNiCrMo-2 UNS N06002 ASME SFA-5.14 ERNiCrMo-2

### **Composition:**

Nickel:	Remainder				
Chromium:	20.5-23.0				
Iron:	17.0-20.0				
Molybdenum:	8.0-10.0 0.50-2.50 1.00 max. 0.50 max.				
Cobalt:					
Manganese:					
Silicon:					

Tungsten:	0.20-1.00				
Copper:	0.50 max.				
Other	0.50 max.				
Carbon	0.05-0.15				
Phosphorus:	0.04 max. 0.03 max.				
Sulfur:					

## **Minimal Mechanical Properties:**

Tensile (psi)	950,000				
Мра	660				
Elongation (%)	-				

#### **Available Product Forms and Sizes:**

Diameter in	0.030	0.031	0.035	0.039	0.045	0.047	0.062	0.078	0.093	*0.125	*0.156x	0.187x
Diameter mm	0.76	0.80	0.89	1.00	1.10	1.20	1.60	2.00	2.40	*3.20	*4.00x	*4.70x

Filler metals are available in MIG spools, TIG cut lengths, reels, and coils from the above diameters.

ËŸSize not available on reels.

Standard TIG straight lengths are available in 36" (914mm) lengths. *Other lengths available upon request*.

<sup>\*</sup>Size not available in MIG spools.