

HAYNES® 242® RTW™ Filler Metal

Product Description:

HAYNES® 242® RTW™ filler metal is used for the gas tungsten arc and gas metal arc welding of HAYNES® 242® alloy. The deposited weld metal has low thermal expansion characteristics, good oxidation resistance to 1500°F (815°C) and excellent fabricability. The alloy is used in gas turbine seal rings, containment structures and high-strength fasteners. The RTW™ finish on the spooled wire promotes smooth feeding through welding equipment and reduced tip wear in contact tips.

Specifications:

AWS A5.14 ERNiMo-12 UNS N10242

Composition:

Nickel:	Remainder	Aluminum:	0.50 max.
Molybdenum:	24.0-26.0	Copper:	0.50 max.
Chromium:	7.0-9.0	Carbon:	0.03 max.
Iron:	2.0 max.	Phosphorous:	0.030 max.
Cobalt:	1.0 max.	Sulfur:	0.015 max.
Manganese:	0.80 max.		
Silicon:	0.80 max.		

Minimal Mechanical Properties

Tensile (psi)	100,000
Mpa	690
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.

*Size not available in MIG spools.

• Size not available on reels.

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

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