

HAYNES[®] 556[®] RTW[™] Filler Metal

Product Description:

HAYNES[®] 556 RTW[™] filler metal is used for the gas metal arc and gas tungsten arc welding of HAYNES[®] HR-120[®] alloy to itself. The alloy is also a great candidate for dissimilar welding of other high-temperature alloys including HR-160[®] alloy and other nickel and cobalt high-temperature materials. The weld metal has excellent resistance to high-temperature corrosive environments including WTE, heart-treating, refinery and boiler applications. The RTW[™] filler metal finish on the spooled wire promotes smooth feeding through welding equipment and reduced tip wear in contact tips.

Specifications:

AMS 5831 UNS R30566
AWS A5.9 ER3556

Composition:

Iron:	Remainder	Tantalum:	0.30-1.25	Lanthanum:	0.10 max.
Chromium:	21.0-23.0	Silicon:	0.80 max.	Phosphorus:	0.04 max.
Nickel:	19.0-22.5	Aluminum:	0.50 max.	Boron:	0.02 max.
Cobalt:	16.0-21.0	Nitrogen:	0.30 max.	Sulfur:	0.015 max.
Molybdenum:	2.5-4.0	Niobium:	0.30 max.		
Tungsten:	2.0-3.5	Carbon:	0.15 max.		
Manganese:	0.50-2.0	Zirconium:	0.15 max.		

Minimal Mechanical Properties

Tensile (psi)	107,300
Mpa	740
Elongation (%)	43.1

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.*