

HASTELLOY® S RTW™ Filler Metal

Product Description:

HASTELLOY® S RTW™ filler metal is use for the gas metal arc and gas tungsten arc welding of S alloy. The deposited weld metal has excellent thermal stability, low thermal expansion and excellent oxidation resistance to 2000°F. S weld metal retains its strength and ductility after aging at temperatures of 800°F to 1600°F. The filler metal also is a great candidate for dissimilar joining in cyclic heating applications and long term temperature exposure. The RTW™ finish on the spooled wire promotes smooth feeding through welding equipment and reduced tip wear contact tips.

Specification:

AMS 5838 UNS N06635

Composition:

Nickel:	Remainder	Aluminum:	0.10-0.50
Chromium:	14.50-17.00	Copper:	0.35
Molybdenum:	14.00-16.50	Lanthanum:	0.01-0.10
Iron:	3.00 max.	Carbon:	0.02 max.
Cobalt:	2.00 max.	Phosphorus:	0.02 max.
Manganese:	0.30-1.00	Sulfur:	0.015 max.
Tungsten:	1.00 max.	Boron:	0.015 max.
Silicon:	0.20-0.75		

Minimum Mechanical Properties:

Tensile (psi)	-
MPa	-
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.

ËÿSize not available on reels.

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

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