

Alloy L605/Haynes 25 Data Sheet

Product Description:

L605/HAYNES® 25 filler metal is used for the gas metal arc and gas tungsten arc welding of similar base materials. The deposited weld metal has excellent strength, good oxidation resistance to 1800°F (980°C), very good sulfidation resistance, and relatively good resistance to wear and galling. The special finish on the spooled wire promotes smooth feeding through welding equipment and reduced tip wear in contact tips.

Specifications:

AMS 5796 UNS R30605

Composition:

Cobalt:	Remainder	Manganese:	1.0-2.0
Chromium:	19.0-21.0	Silicon:	1.0 max.
Tungsten:	14.0-16.0	Carbon:	0.05-0.15
Nickel:	9.0-11.0	Phosphorus:	0.04 max.
Iron:	3.0 max.	Sulfur:	0.03 max.

Minimal Mechanical Properties:

Tensile (psi)	140,000
Mpa	965
Elongation (%)	40

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.*