

Alloy W Data Sheet

Product Description:

HASTELLOY® W filler metal is used for the gas metal arc and gas tungsten arc welding of dissimilar solid solution strengthened nickel alloys. The filler metal is widely used for that purpose in gas turbines, aerospace and chemical process industries. 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-3 UNS N10004 MSRR9500/213
 ASME SFA-5.14 ERNiMo-3 AMS5786

Composition:

Nickel:	Remainder
Molybdenum:	23.0-26.0
Iron:	4.0-7.0
Chromium:	4.0-6.0
Cobalt:	2.50 max.
Manganese:	1.00 max.
Silicon:	1.00 max.
Tungsten:	1.00 max.
Vanadium:	0.60 max.
Copper:	0.50 max.
Carbon:	0.50 max.
Other:	0.12 max.
Phosphorus:	0.04 max.
Sulfur:	0.03 max.

Minimum Mechanical Properties:

Tensile (psi)	100,000
MPa	690
Elongation (%)	-

Available Product Forms and Sizes*:

Diameter in	0.030	0.035	0.045	0.062	0.078	0.093
Diameter mm	0.76	0.89	1.10	1.60	2.00	2.40

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

*Other sizes available upon request

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

Aimtek believes this data to be accurate and to reflect qualified expert opinion regarding current research. However, Aimtek cannot make any expressed or implied warranty as to this information.