

625 filler metal is used in the Gas Tungsten-Arc (GTAW), Gas-Metal-Arc (GMAW) and Shielded-Metal-Arc (SMAW) welding Processes. Weld metal deposited by 625 has extremely high strengths and great corrosion resistance. 625 is often an upgrade over 316L stainless as well as other super austenitic grades like 904L or 254 SMO®. 625 is also the suggested weld filler for AL-6XN®. 625 wire can be used for many nickel alloys as well as many dissimilar welds to lower grade stainless steels and carbon steel.

Specifications

UNS: N06625 AMS: 5837 AWS: A5.14, ERNiCrMo-3, A5.11, ENiCrMo-3 ASME: SFA-5.14, ERNiCrMo-3 DIN: 2.4856
 GE: S-1000, S-400, BS EN 10204:2204 3.1 P Number: 43

Chemical Composition, %

	Cr	Ni	Mo	Fe	Si	Mn	C	Cb
Alloy 625	22	64	9.0	1.0	0.05	0.2	0.04	3.5

Features

- Excellent strength
- Excellent corrosion resistance
- Used for many dissimilar welds
- Very good weldability

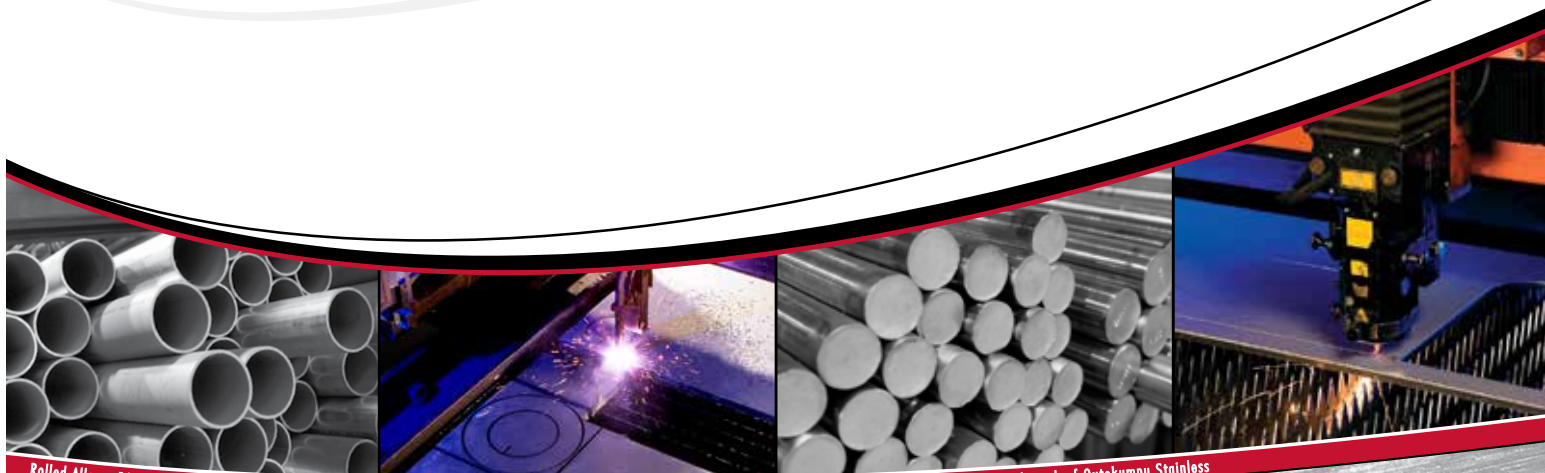
Applications

- Sub-sea
- Desalination
- Aerospace
- High temperature up to 1800°F

Availability

GMAW	Diameter, in	–	–	0.03	0.035	0.045	0.062	0.093	–
GTAW	Diameter, in	0.02	0.025	0.03	0.035	0.045	0.062	0.093	0.125
Electrode	Diameter, in	–	–	–	–	–	–	0.093	0.125

Diameter	GMAW	GTAW	SAW Subarc	SMAW (112)
0.030	Cincinnati, OH	Cincinnati, OH	–	–
0.035	Cincinnati, OH/Houston, TX	Cincinnati, OH	–	–
0.045	Cincinnati, OH/Houston, TX	Cincinnati, OH	–	–
0.062	Cincinnati, OH	Cincinnati, OH	–	–
0.093	Cincinnati, OH	Cincinnati, OH	Cincinnati, OH	Cincinnati, OH
0.125	–	–	–	Cincinnati, OH



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