



Supplier of Welding Alloys

Stainless Steel TIG, MIG and SUB-ARC Wire

Oxford Alloy® 308/308H

SPECIFICATIONS

AWS 5.9
ASME SFA 5.9

CLASSIFICATIONS

AWS ER308/308H
UNS S30880

DESCRIPTION / APPLICATION

Oxford Alloy ER308H is used for welding of unstabilized stainless steels such as Types 301, 302, 304, 304H, 305, 308, and 308H. This filler metal is also used for general-purpose applications where corrosion conditions are moderate. The classification is the same as the Oxford Alloy ER308, except that the allowable carbon content has been restricted to the higher portion of the 308 range. Carbon content in the range of .04 - .08 provides higher strength at elevated temperatures.

| AWS Chemical Composition | | | | | | |
|--------------------------|----------|-----------|-----------|----------|----------|----------|
| C | Mn | Si | Cr | Ni | S | P |
| 0.04-0.08 | 1.0-2.5 | 0.30-0.65 | 19.5-22.0 | 9.0-11.0 | 0.03 max | 0.03 max |
| Mo | Cu | | | | | |
| 0.50 max | 0.75 max | | | | | |

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 87,000 psi 600 MPa

Yield strength: 59,450 psi 410 MPa

Elongation: 41%

Please contact our sales department for more information at 800-562-3355 or 225-273-4800.

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