



WELDING PRODUCTS

**CERTIFICATE OF ANALYSIS**

CUSTOMER :  
MARKED FOR :  
PACK SLIP/ORDER# :

P.O. NUMBER : 119355  
DATE : 06/03/2019  
WORK ORDER :

TYPE : 316/316L

SIZE : 1/16" x 3/16"

LOT NO. : 9050612304

LBS SHIPPED : 10 lbs

HEAT NO. : E28123

SPECIFICATION : AWS A5.9, ASME SFA5.9

PART NUMBER : S512311-I12

ER316/ER316L EN 10204 3.1 (For Actual Chemistry Only)

**Actual Chemistry :**

**FILLER METAL CHEMISTRY(%)**

C	0.009
Cr	18.06
Ni	12.05
Mo	2.50
Mn	1.50
Si	0.55
P	0.027
S	0.001
Cu	0.33
Nb	0.014
N	0.040

**This material has not come in contact with mercury or mercury containing compounds.**

**Typical Mechanical Properties :**

86,000 Tensile Psi  
57,000 Yield Psi  
36 % Elongation

Charpy V-Notch Average = 34 Ft Lbs. @ -320 Degrees F

This typical mechanical information should not be construed as actual results.

**Ferrite(s) :**

FN (Magnetic)  
9.0 FN (DeLong)  
7.1 FN (WRC)  
7.1 % Ferrite (Schaeffler)

**We hereby certify that the above product has been classified in accordance with the listed specification and conforms to all applicable requirements thereof.**

**Filler Metals Quality Assurance**

**Hobart Brothers Company**

**Hobart Square**

**Troy, Ohio 45373**

**Authorized Signature**