



# TIG 316L



## Standards

AWS 5.9  
**ER 316L**

EN ISO 14343-A  
**W 19 12 3 L**

W. Nr.  
**1.4430**

## Description & applications

Filler material in solid metal sticks for TIG welding of austenitic stainless steels containing Molybdenum type 316, 316L, 316 Ti/Nb , as well as Molybdenum-free stainless steels type 304, 304L. The presence of Molybdenum brings several advantages : good corrosion resistance in chloride-containing environments and improved creep resistance up to 400 °C.

## Typical chemical composition (%)

C max	Mn	Si	Cr	Ni	Mo	S max	P Max	Fe
<b>0.025</b>	<b>1.8</b>	<b>0.45</b>	<b>19.0</b>	<b>12.0</b>	<b>2.6</b>	<b>0.02</b>	<b>0.02</b>	<b>Base</b>

## Typical mechanical properties of all-weld metal

Rm	Rp 0,2	A5	KV-196°C
<b>600 MPa</b>	<b>410 MPa</b>	<b>35 %</b>	<b>45 J</b>

## Operating parameters

Shielding gas recommendations :

EN ISO 14175 I1 : 100 % Argon / 6-12 l/mn

Root : Argon, Nitrogen 3-6 l/mn



**SADEV INOX – 2 Allée des Faisans – 74600 SEYNOD – France**

**Tel: 04 50 33 70 75/ Fax 04 50 33 70 38 [info@sadevinox.com](mailto:info@sadevinox.com) [www.sadevinox.com](http://www.sadevinox.com)**