

# WIREFCOMMS

t: +44 (0)1384 262022 e: sales@alloywire.com w: www.alloywire.com Narrowboat Way, Hurst Business Park, Brierley Hill, West Midlands, DY5 1UF, UK

The Customer's Newsletter



## EXHIBITION REVIEWED

October 5 – 7, 2016. Rosemont, IL, USA



Superbly branded stand packing a punch at the show as customers start to arrive



The impressive main entrance of the centre



Customer engagement on the stand

AWI was very well positioned at this year's CASMI Spring World Show, with many spring makers and engineers stopping to talk with Michelle, Stephen and Angus about high performance nickel alloy wire for their spring designs.

Visiting customers were all smiles, complimenting AWI on great performing wire and their reliable delivery. The importance of this was emphasised repeatedly, adding significant value to AWI as a supplier. So, ALL positive at Spring World 2016 for AWI!

## Exhibitions



**Hall 03**  
STAND C30  
**November 29th –**  
**December 1st, 2016**  
valveworldexpo.com



**HOUSTON, USA**  
**February 28th – March 2nd, 2017**  
houstexonline.com





# Stainless steel wire is special to AWI

AWI is receiving record demand for high quality stainless steel



## AWI is receiving record demand for high quality stainless steel that is of European origin and/or DFARS compliant.

The company offers a selection of 18 different grades and these are all available in special diameter tolerances, special tensile strength ranges, special surface finishes and special packaging.

Interest has come from customers in a range of sectors; including aerospace, nuclear, marine and petrochemical, with many citing the firm's AS9100 accreditation and its on-time delivery record as key reasons for the enquiry.



Natalie Baker - Sales Executive

"Manufacturing quality, delivering reliability is one of our founding principles and one that still rings true today with our global customer base," commented **Natalie Baker, Sales Executive**.

"We have an extensive range of stainless steel grades and our stock levels mean we can provide it in any quantity from ¼ kg to 50kg in just two weeks. Our manufacturing capability is equally as impressive and we are more than happy to produce wire as small as 0.025mm (that's 2 times smaller than a human hair) and as large as 21mm. Applications can be as diverse as 'Locking' wire for aircraft engines to stainless steel wire for cutting honeycomb from a beehive.

"In addition, if you are manufacturing machined components and don't want your wire on spools or in coils, we can provide your stainless steel in straight bars."



Stainless steel in straight bars



# Stainless steel wire story continued...



## A QUALITY SERVICE

The below Stainless steel grades are manufactured in round wire, flat wire and profile/shaped wire and delivered via express air courier all over the world. AWI's service is so special that, for example, material can be in a customer's factory **anywhere in North America within 2 days of shipping!**

Other grades include:

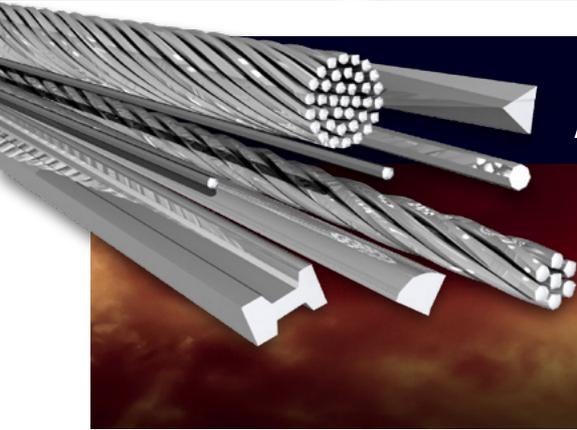
**Stainless 420 / Stainless 314 / Stainless 321 /  
Stainless 303 / Stainless 310 / Stainless 304V**

Spring makers are also using AWI's expertise when it comes to stainless steel, praising the consistency of temper throughout the wire, the good cast and the soap coating for contributing to consistently great springs.

| Stainless Grade     | W. Nr            | UNS    | AWS | AMS                          | ASTM                 | BS                        | ISO      | OTHER                          |
|---------------------|------------------|--------|-----|------------------------------|----------------------|---------------------------|----------|--------------------------------|
| <b>302</b>          | 1.4310           | S30200 | 160 | 5688                         | A313<br>A493<br>A580 | 970<br>2056<br>EN 10088-3 | 15156-3* | DIN EN 10270-3<br>DIN EN 10151 |
| <b>304</b>          | 1.4301<br>1.4307 | S30400 | 161 | 7245                         | A313<br>A493<br>A580 | 970<br>2056               | -        | DIN EN 10270-3<br>DIN EN 10151 |
| <b>316</b>          | 1.4401<br>1.4404 | S31600 | 162 | -                            | A313<br>A493<br>A580 | 970<br>2056               | 15156-3* | DIN EN 10270-3<br>DIN EN 10151 |
| <b>316 LVM</b>      | 1.4441           | S31673 | 163 | -                            | F138<br>F1350        | 7252 pt1+                 | 5832-1   | -                              |
| <b>316 Ti</b>       | 1.4571           | S31635 | 168 | -                            | A240                 | EN 10088-3                | 15156-3* | -                              |
| <b>DTD 189A</b>     | -                | -      | 164 | 5689                         | -                    | -                         | -        | DTD 189A                       |
| <b>Duplex</b>       | 1.4462           | S31803 | 167 | -                            | A479                 | -                         | 15156-3* | DIN EN 10270-3                 |
| <b>Super Duplex</b> | 1.4410           | S32750 | 169 | -                            | -                    | -                         | 15156-3* | -                              |
| <b>Nitronic 50</b>  | 1.3964           | S20910 | 165 | 5764                         | A580                 | -                         | 15156-3* | -                              |
| <b>Nitronic 60</b>  | -                | S21800 | 166 | 5848                         | A580                 | -                         | -        | -                              |
| <b>A286</b>         | 1.4944<br>1.4980 | S66286 | 023 | 5731<br>5734<br>5737<br>5853 | A453                 | HR 52<br>HR 650           | 15156-3* | DIN EN 2399                    |
| <b>20 CB 3</b>      | 2.4660           | N08020 | 130 | -                            | B473                 | -                         | 15156-3* | -                              |

\* NACE MR 0175 \* Composition D





# ALLOY SPOTLIGHT



## INCONEL X-750

Size range 0.025mm – 21mm

### KEY FEATURES

- Good creep rupture strength at high temperatures.
- Very good at cryogenic temperatures.
- Age hardenable.
- ☒ High temperature dynamic applications

### TYPICAL APPLICATIONS

- Nuclear reactors
- Gas turbines
- Rocket engines
- Pressure vessels
- Aircraft structures

☒ Dynamic applications = active/lively/changing

## SUPER DUPLEX

Size range 0.025mm – 6.50mm

### KEY FEATURES

- Excellent resistance to stress corrosion cracking in chloride-bearing environments.
- Excellent resistance to pitting and crevice corrosion.
- High resistance to general corrosion.

### TYPICAL APPLICATIONS

- Oil and gas exploration
- Marine application

For further technical information on INCONEL X-750 & SUPER DUPLEX, please visit our alloy wire range page on our new website [www.alloywire.com/#range](http://www.alloywire.com/#range)

## NOW AVAILABLE Pure grades of Titanium Titanium Grade 1 & 2

### TITANIUM GRADE ONE

This commercially pure grade of titanium has a density of 4.5 g/cm<sup>3</sup>, making it ideal where lightweight properties are required. It is a soft alloy which can be easily formed and is commonly used for general engineering components, fixtures and fittings.

#### Diameter range, available now:

- Annealed 0.7mm – 5.5mm
- Hard drawn 0.7mm – 4.0mm

### TITANIUM GRADE TWO

Essentially grade 1 but slight chemical compositional differences.

#### Diameter range, available now:

- Annealed 0.7 mm – 5.5mm
- Hard drawn 0.7 mm – 4.0mm

PLEASE NOTE: all grades of titanium can only be supplied with an oxide layer!

## NIMONIC C-263

Alloy C-263 is an age hardenable alloy. It has high strength and corrosion resistance along with good formability, high-temperature ductility and is commonly used in gas turbines for rings.

#### Diameter range available from Dec 2016:

- Annealed 0.025mm - 11.0mm
- Spring Temper 0.025mm - 7.0mm





Steve Poston - Flat Wire Technician

## ➤ LASER MICROMETER

AWI is continually investing in future technology and have recently purchased two Zumbach Laser Micrometers, which have been fitted onto the flat wire rolling lines.

These will give a more accurate "in-line" measurement of flat wire widths, allowing us to input nominal size and tolerances. An alarm will be triggered should there be any deviation from dimensional tolerances giving us the guaranteed confidence of supplying a 100% dimensionally correct flat wire throughout the full production run.

# CHINA, JAPAN and TAIWAN TOUR

Mark Venables, Managing Director, had an excellent two-week tour of Shanghai, Tokyo and Taipei meeting Alloy Wire sales agents, attending the Wire China exhibition and visiting existing and new customers.

**Mark met with Candy and the team at Epad in Shanghai**, sharing all the latest things happening at Alloy Wire, presenting the new Technical brochure, sample box and company presentation. Candy accompanied Mark to the Wire China exhibition, which was extremely busy, particularly in the International Hall and AWI has already expressed an interest in exhibiting in 2018. Customers were very interested in Alloy Wire's extremely high quality standards and our very fast three-week lead time.

**In Tokyo, Mark met with Osamu, Hisashi, Kuniaki and the Tomoe Engineering team.** Information was shared and market opportunities identified, with both parties agreeing that a better understanding of Alloy Wire products that customers could be targeted to increase sales. Clients were very interested in Alloy Wire's ongoing technical advice and support, asking lots of questions about our exotic nickel alloys. Japanese customers have exceptionally high quality standards, in very demanding industries, and AWI were pleased to reaffirm its ability to surpassing these exacting requirements.

**In Taipei, Mark met with Chompoonuut (Nuut)** and visited customers in different market sectors interested in our small order quantities. Engineers, designers and teams from the R&D departments were all interested in the sixty different nickel and stainless alloys renowned for working in high temperature and corrosive environments.

Mark would like to thank Candy, Osamu and Nuut for an extremely well organised tour in each of the three countries.



Very busy at the Wire China 2016 show

Mark Venables with Nuut in Taiwan



Mark meets the Epad team



Osamu and Kuniaki visiting customers in Tokyo

### ALLOY WIRE CHRISTMAS HOLIDAY CLOSURE DATES

**CLOSED** 12:30pm **Friday** 23rd December

**OPEN** 8:00am **Tuesday** 3rd January

**THE  
FINAL  
WORD**

"We would like to take this opportunity to thank all our customers for their business through the year and wish you season's greetings, good health and success in 2017."

