



## Special Alloys

Maximum Corrosion Resistance



**MaxCore 6Mo**  
**MaxCore 904L**  
**MaxCore Alloy 22**



**NEUMO | VNE | EGMO**

NEUMO Ehrenberg Group

# Special Alloys Tubes and Fittings


While 316L/1.4404 is adequate for most applications, factors such as high chloride media, acidic pH levels, high temperature, time of contact, and equipment design can affect the corrosion of stainless steel.

**MaxCore** products provide superior corrosion resistance for the most aggressive applications in the hygienic/sanitary and high purity industries.

## Product Offering

### MaxCore 6Mo - UNS N08367

(Ultra 6XN®, AL-6XN®)

- Standard: ASME-BPE 
- Sizes: ½" - 4" O.D. tube size
- Internal Surface Finish:



SF1-20 Ra (0.51 µm)



SF5-20 Ra (0.51 µm) EP

- Tube complies with ASTM A270/A249/ B676 (welded), ASTM B690 and ASME SB690 (seamless).

### MaxCore 904L - UNS N08904

- Standard: ASME-BPE 
- Sizes: ½" - 4" O.D. tube size
- Internal Surface Finish:
- Standard: DIN 11866/11865 Line B
- Sizes DN8 (13.5) DN150 (168.3)




SF3-30 Ra (0.76 µm)  
H3o Ra 0.8 µm  
H4o Ra 0.4 µm



SF4-15 Ra (0.38 µm) EP  
HE3o Ra 0.8 µm EP  
HE4o Ra 0.4 µm EP

- Tube complies with ASTM A249 / A269, ASME SA249 (welded)
- Tube complies with PED, EN 10217-7 (Welded), EN10216-5 (Seamless)

### MaxCore Alloy 22 - UNS N06022

- Standard: ASME-BPE 
- Sizes: ½" - 4" O.D. tube size
- Internal Surface Finish:



SF1-20 Ra (0.51 µm)



SF5-20 Ra (0.51 µm) EP

- Tube complies with ASTM B626 and ASME SB626 (welded), ASTM B622 and ASME SB622 (seamless).

- ✓ MTR Acc. to EN 10204 3.1
- ✓ Tank ferrules, spools, custom fittings and manifolds are available upon request



## MaxCore Typical applications

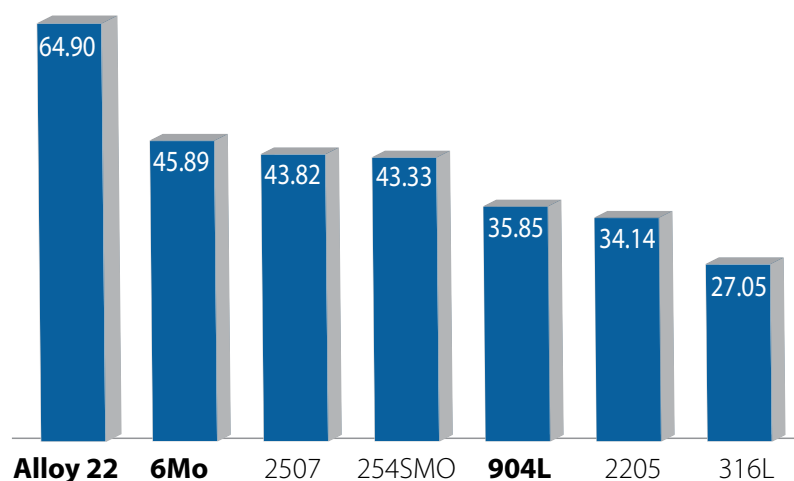
- **Biotech and Pharmaceutical:** buffer solutions, chromatography columns, API, ethanol distillation, saline solutions
- **Personal care:** shampoo, conditioner, toothpaste, deodorant/antiperspirant, body wash, liquid soap
- **Home care:** fabric softener, detergent, cleaners
- **Food, dairy and beverage:** ketchup, tomato sauce, mayonnaise, soy sauce, barbecue sauce, chili sauce, breaker eggs/liquid eggs, soup, brine solutions, cheese, isotonic drinks

## Alloy Chemical Composition

Type	UNS	Grade	similar EN- (European) Grade	C (max)	N	Cr	Ni	Mo	Cu	Typical trade names
Austenitic	S31603	316L	1.4404	0.03	0.1	16.0-18.0	10.0-14.0	2.0-3.0	-	
Duplex	S32205	2205	1.4462	0.03	0.14-0.20	22.0-23.0	4.5-6.5	2.5-3.5	-	
Superaustenitic	N08904	<b>904L</b>	1.4539	0.02	-	19.0-23.0	23.9-28.0	4.0-5.0	1.0-2.0	<b>MaxCore 904L</b> URANUS B6
Superduplex	S32750	2507	1.4410	0.03	0.24-0.32	24.0-26.0	6.0-8.0	3.0-5.0	0.5	
Superaustenitic	S31254	SMO254	1.4547	0.02	0.18-0.22	19.5-20.5	17.5-18.5	6.0-6.5	0.5-1.0	
Superaustenitic	<b>N08367</b>	<b>6Mo</b>	<b>1.4529</b>	0.03	0.18-0.25	20.0-22.0	23.5-25.5	6.0-7.0	0.75	<b>MaxCore 6Mo</b> Ultra 6XN® AL-6XN®
Superaustenitic	N08926	6Mo	1.4529	0.02	0.15-0.25	19.0-21.0	24.0-26.0	6.0-7.0	0.5-1.5	Ultra 6XN® Alloy 926
Nickel Base	N10276	Alloy C276	2.4819	0.01	-	16	57	16	0.5	Hastelloy C276®
Nickel Base	N06022	<b>Alloy 22</b>	2.4602	0.01	-	22	56	13	0.5	<b>MaxCore Alloy22</b> Hastelloy C22®

## PREN

### Pitting Resistance Equivalent Number



The higher the PREN-value (pitting resistance equivalent number), the more resistant is the alloy to localized pitting corrosion by aqueous salt solution.  $PREN = Cr + 3.3Mo + 16N$

**AL-6XN®** is a registered trademark of ATI Properties, Inc.

**Ultra 6XN®** is a registered trademark of Outokumpu.

For additional information visit MaxCore website: [WWW.MAX-CORE.COM](http://WWW.MAX-CORE.COM)

## Additional in Special Alloys\*



Vessels and Fermenters



Mixproof valves



ConnectS°, BioConnect° and Hygienic Connections



Single Seat valves



Sight Glasses



Diaphragm Valves



Butterfly Valves



Ball Valves



BioFlow°  
Check Valves



BioCheck°  
Sampling valves



Magnetic Mixers



Tank Cleaners

\* Not available for all markets

## The Neumo Ehrenberg Group Flow Division



**CHINA**  
info@neumo.com.cn

**IRELAND**  
dosullivan@flowsolutions.ie

**POLAND**  
neumo@neumo.pl

**SCANDINAVIA**  
DK - dss-flowtech@damstahl.com  
SE - dsm-sales@damstahl.com

**UK**  
stainless@neumo.co.uk

**FRANCE**  
france@neumo-es.com  
awh.fr@awh.eu

**ISRAEL**  
salese@egmo.co.il

**PORTUGAL**  
portugal@neumo-es.com

**SPAIN**  
neumo-es@neumo-es.com

**USA & CANADA**  
stainless@vncorp.com

**GERMANY**  
m.doerr@neumo.de  
info@awh.eu  
info@rr-rieger.de

**ITALY**  
italy@neumo-es.com

**ROMANIA**  
robert.balazs@awh.eu

**SWITZERLAND**  
info@herrli.net

**VIETNAM**  
minh@neumollc.vn

**HUNGARY**  
neumo@neumo.hu

**LATIN AMERICA**  
stainless@vncorp.com

**RUSSIA**  
info@neumo.ru

**TURKEY**  
info@neumo.com.tr

**REST OF THE WORLD**  
i.goldberg@neumo.de