



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

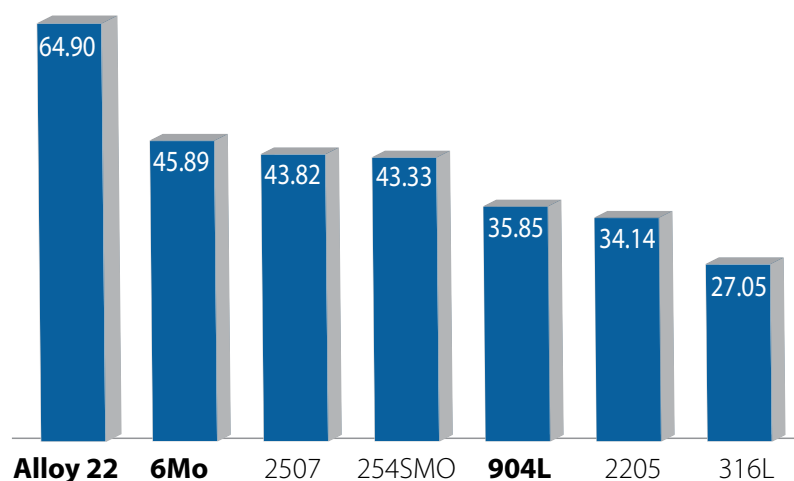
- **Biotech and Pharmaceutical:** buffer solutions, chromatography columns, API, ethanol distillation, saline solutions
- **Personal care:** shampoo, conditioner, toothpaste, deodorant/antiperspirant, body wash, liquid soap
- **Home care:** fabric softener, detergent, cleaners
- **Food, dairy and beverage:** 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	904L	1.4539	0.02	-	19.0-23.0	23.9-28.0	4.0-5.0	1.0-2.0	MaxCore 904L 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	N08367	6Mo	1.4529	0.03	0.18-0.25	20.0-22.0	23.5-25.5	6.0-7.0	0.75	MaxCore 6Mo 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	Alloy 22	2.4602	0.01	-	22	56	13	0.5	MaxCore Alloy22 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

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

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