

# SUPER DUPLEX 2507 TUBING



TWR-Supply provides access to the most-trusted stock of Super Duplex 2507 tubing in North America. 2507 Super Duplex is a high-alloy duplex stainless steel with a PRE (Pitting Resistance Equivalent) value of minimum 42.5. The grade is characterized by very good chloride corrosion resistance, combined with very high mechanical strength. It is particularly suited for use in aggressive environments such as warm chlorinated seawater and acidic, chloride containing media. It is widely used in offshore oil and gas exploration/production and in heat exchangers in petrochemical/chemical processing. The grade is also suitable for hydraulic and instrumentation applications in tropical marine environments.

## MECHANICAL PROPERTIES

Yield Strength 0.2% Offset	80 KSI min.
Yield Strength 0.1% Offset	93 KSI min.
Tensile Strength	116 - 145
Elongation (% (a)* min.)	25%
Elongation (% 2" min.)	15%
Rockwell Hardness Scale C	32 HRC max.

\*(a). Based on  $L_o = 5.65/S_o$ , where  $L_o$  is the original gauge length and  $S_o$  the original cross-section area.

## ASTM A-789 (UNS S32750) CHEMICAL COMPOSITION % (MAX.)

Cr	Chromium	25
Ni	Nickel	7
C	Carbon	0.030
Mo	Molybdenum	4
Mn	Manganese	1.2
Si	Silicon	0.8
P	Phosphorus	0.035
S	Sulfur	0.015
Others		N=0.3

OD	Wall	ID	PSI
1/4" (.2500")	.035	.180	29,232
	.049	.152	40,925
	.065	.120	54,288
3/8" (.3750")	.035	.305	19,488
	.049	.277	27,283
	.065	.245	36,192
	.083	.209	46,214
1/2" (.5000")	.035	.430	14,616
	.049	.402	20,462
	.065	.370	27,144
	.083	.334	34,661
	.095	.310	39,672
5/8" (.6250")	.065	.495	21,715
	.083	.459	27,729
	.095	.435	37,416
	.120	.385	40,090
	3/4" (.7500")	.065	.620
.083		.584	23,107
.095		.560	26,448
.109		.532	30,346
.120		.510	33,408
.134		.482	37,300
1" (1.000")	.065	.870	13,572
	.083	.834	17,330
	.109	.782	22,759
	.120	.760	25,056

All Pressure Ratings are approximate and for illustration purposes only.  
Values are not Guaranteed or Warranted.

