



Cogne Acciai Speciali

Oil & Gas
COGNE ENERGIZING THE WORLD

www.cogne.com

Products for Oil&Gas

ROUND BARS

Cold drawn and bright bars

3 - 100 mm

1/8" - 4"

Peeled bars

20 - 400 mm

7/8" - 15,7"

Rough turning bars

400 - 900 mm

15,7" - 35"

SEMIS

Ingots

7.000 kg - 70.000 kg

4.400 lb - 154.000 lb

Forged bars (rcs or round)

100 - 1500 mm

4" - 60"

SECTORS

- Valves
- Shale Gas Equipment
- Subsea Processing
- Control&Injections Lines
- Umbilicals & Flying Leads
- Drill Collars
- Wireline
- Seamless tube

PRODUCTS FOR SEAMLESS TUBE MARKET

Round forged bars

Diam. 100 mm up to 400 mm forged and rolled (black surface)

- Standard length of the bar: from 4.000 mm up to 9.000 mm
- Round tolerance: +5mm/-5mm
- Straightness: 5mm/m
- MOQ: 55 TONS for special project or trial on demand
- Quantity tolerance +/- 10% on the total order
- 10% of short bars

Diam. 100 mm up to 400 mm peeled and reeled (bright surface)

- Round tolerance: +1mm/-0mm
- Standard length of the bar: from 4.000 mm up to 9.000 mm
- Roughness: Ra ≤ 6,4 μm
- Straightness: 1,5 mm/m
- MOQ: 55 TONS for special project or trial on demand
- Quantity tolerance +/- 10% on the total order
- 10% of short bars

Corrosion Resistance

The classification of stainless steels for the Oil&Gas applications is commonly achieved through a "Pitting Resistance Equivalent Number" PREN, which seeks to define corrosion in aggressive environments: $PREN = \%Cr + 3.3 \times \%Mo + 16\%N$

Martensitic grades with adjustable properties by Heat treatment

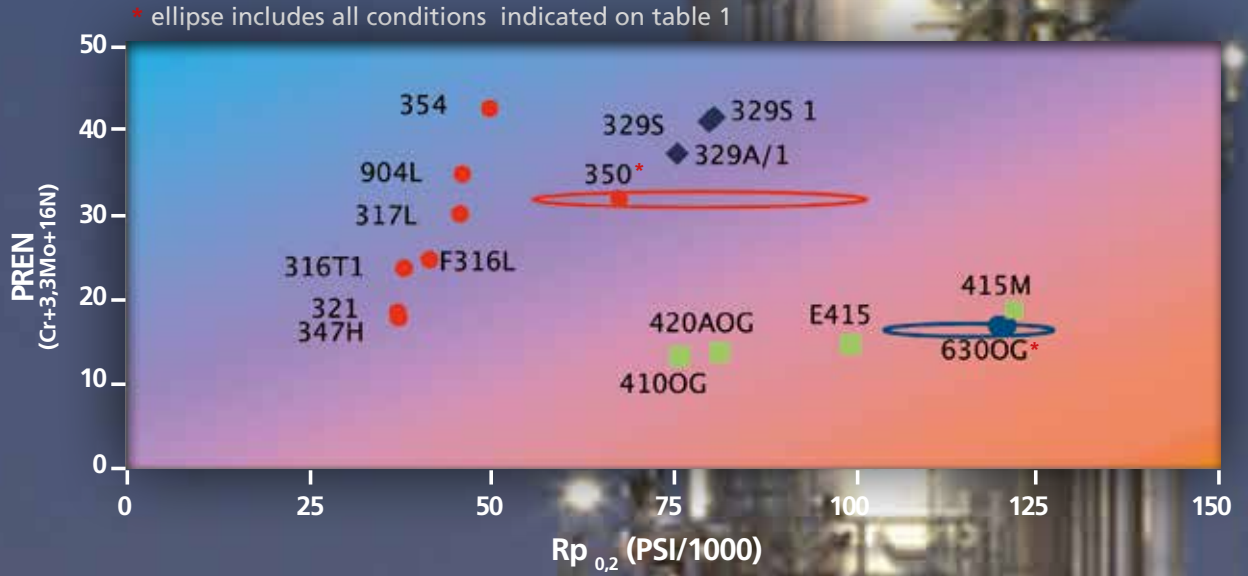
Super Austenitic grades with adjustable properties by production process

Duplex 329A and SuperDuplex 329S-S1: for duplex steels the PREN value must not be below 30.

Where the $PREN > 40$ the steel is classified as SuperDuplex.

GRADE DESIGNATION			HEAT TREATMENT COND. Supply condition	CHEMICAL COMPOSITION										
grade (Cogne)	W.N.	AISI - UNS - ASTM		C	S	P	Si	Mn	Cr	Ni	Mo	Cu	N	(others)
F316L	1.4404	316L - S31603	Solution Annealed	0.03 max	0.030 max	0.045 max	0.75 max	1.25-2.0	16.5-18	10-13	2.0-2.5		0.11 max	
317L		317/317L-S31700/S31703	Solution Annealed	0.03 max	0.015 max	0.045 max	1.0 max	2.0 max	17.5-19.5	11-15	3.0-4.0		0.10 max	
321 3	1.4541	321 - S32100	Solution Annealed	0.08 max	0.030 max	0.045 max	0.75 max	2.0 max	17-19	9-12			0.10 max	Ti 5x(C+N)-0.7
347H	1.4550	347H - S34709	Solution Annealed	0.08 max	0.030 max	0.045 max	0.75 max	2.0 max	16.5-18.0	10.5-13.5	2.0-2.5		0.10 max	Ti 5x(C+N)-0.7
316T 1	1.4571	316Ti - S31635	Solution Annealed	0.08 max	0.030 max	0.045 max	0.75 max	2.0 max	16.5-18.0	10.5-13.5	2.0-2.5		0.10 max	Ti 5x(C+N)-0.7
329A 1	1.4462	S31803 - F51	Solution Annealed	0.03 max	0.010 max	0.030 max	1.0 max	2.0 max	22-23	4.5-6.5	3.0-3.5		0.14-0.20	
329S	1.4501	S32760 - F55	Solution Annealed	0.03 max	0.010 max	0.030 max	1.0 max	1.0 max	24-26	6-8	3.0-4.0	0.5-1.0	0.20-0.30	W 0.5-1.0
329S 1	1.4410	S32750 - F53	Solution Annealed	0.03 max	0.015 max	0.035 max	0.8 max	1.2 max	24-26	6-8	3.0-4.5	0.5 max	0.24-0.32	
350	---	S20910-XM19	Solution Annealed	0.06 max	0.030 max	0.040 max	0.75 max	4.0-6.0	20.5-23.5	11.5-13.0			0.20-0.40	
			HR < 2"											
			HR > 2" < 3"											
354	1.4547	S31254 - F44	Solution Annealed	0.02 max	0.010 max	0.030 max	0.8 max	1.0	20.5-23.5	17.5-18.5	6.0-6.5	0.5-1.0	0.18-0.22	
SF286	1.4980	660 - S66286 - A286	B	0.03-0.08	0.015 max	0.025 max	1.0 max	1.0-2.0	13.5-16	24-27	1.0-1.5	0.5-1.0		Ti 1.9-2.3 Al 0.35 max
630OG	1.4542	S17400-17.4PH	Annealed	0.07 max	0.030 max	0.040 max	0.7 max	1.0 max	15-17	3.0-5.0	0.6 max	3.0-5.0	0.05 max	Nb+Ta 5xC-0.45
			H1075											
			H1150											
			H1150D											
410 OG	1.4006	410 - S41000	Annealed	0.10-0.15	0.015 max	0.040 max	1.0 max	1.0 max	11.5-13.5	0.5 max	0.5 max	0.5 max		
			QDT											
420AOG	1.4021	420 - S42000	Annealed	0.16-0.25	0.030 max	0.040 max	1.0 max	1.0 max	12-14					
			QDT											
415M	1.4418	---	Annealed	0.06 max	0.015 max	0.040 max	0.7 max	1.5 max	15-17	4-6	0.8-1.5		0.020 min	
			QT760											
			QT900											
E415	1.4313	S41500-F6NM	Annealed	0.05 max	0.015 max	0.03 max	0.6 max	0.5-1.0	12.0-14.0	3.5-5.5	0.5-0.7		0.020 min.	
			QDT											
				0.020 max	0.010 max	0.03	0.70 max	2 max	19-21	24-26	4.5	1.2-2	0.10 max	

STAINLESS STEELS FOR OIL&GAS



(others)	MECHANICAL PROPERTIES (LONGITUDINAL)								COMPLIANCE TO STANDARDS							
	T.S. Ksi min.	Y.S.(0.2%) Ksi min.	El 4d% min.	R.A. % min.	HB max.	Kv Test. T°F	Kv min. ft-lbf	EN10088-3	NACE MR0175 MR0103 ISO 15156-3	NORSK M630 MDS	STATOIL D22	API 6A PSL1-3	ASTM A182 *	ASTM A276 ASME SA276	ASTM A453	ASTM A479 ASME SA479
	75-115	30	40	50	140-235				x			36K	x	x		x
	75-115	30	30	50	235								x	x		x
Ti 5x(C+N)-0.7	75-115	30	40	50	140-235				x			36K	x	x		x
Ti 5x(C+N)-0.7	75-115	30	40	50	140-235				x			36K	x			
Ti 5x(C+N)-0.7	75-115	30	40	50	140-235				x			36K	x	x		x
	95	65	18	35	272	-58	33		x			60K	x	x		
W 0.5-1.0	110	80	17	35	301	-58	33		x	D47	x	75K	x	x		x
	110	80	17	35	301	-58	33		x	D57		75K	x	x		x
	100	55	35	55	293				x				x	x		x
	135	105	20	50					x					x		x
	115	75	25	50												
	100	60	30	50												
	95	44	35	50	321				x	R17						
Ti 1.9-2.3 Al 0.35 max	B 0,003-0,010 V 0,10-0,50	135	105	15	18	248-321								x	x	
		*	*	*	*	363										
		145	125	13	45	311	68	20								
		135	105	16	50	277	68	30								
		135	105	16	50	255-311	-75	30				75K				
		115	75	18	55	255-311	-75	30				75K				
		70-115	40	20	45	223							Class1	x		x
		100	80	20	45	235	-20	20				75K	Class2	cond.T		Cond.1
		≤ 115				241								x		x
		95	80	20	45	235	14	15				75K				
		≤ 160				320			x							
		110-140	80	16					x	x						
		130-160	105	16			-40	20	x	x						
		< 160				320			x							
		115	90	18	45	197-241	68	51				(80K)	x	x		x
		76-105	33	35		230	68	100								

* heat treatment capability H900

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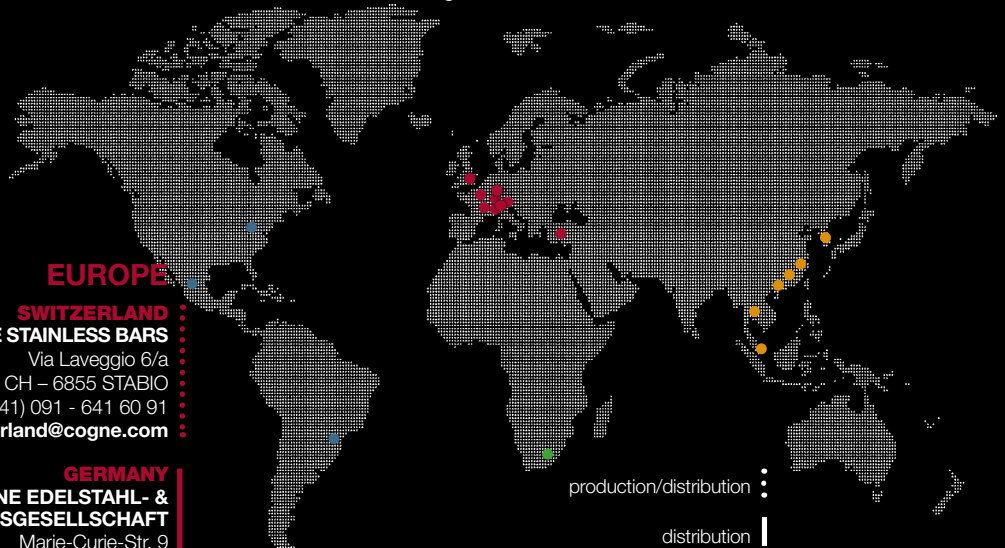
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