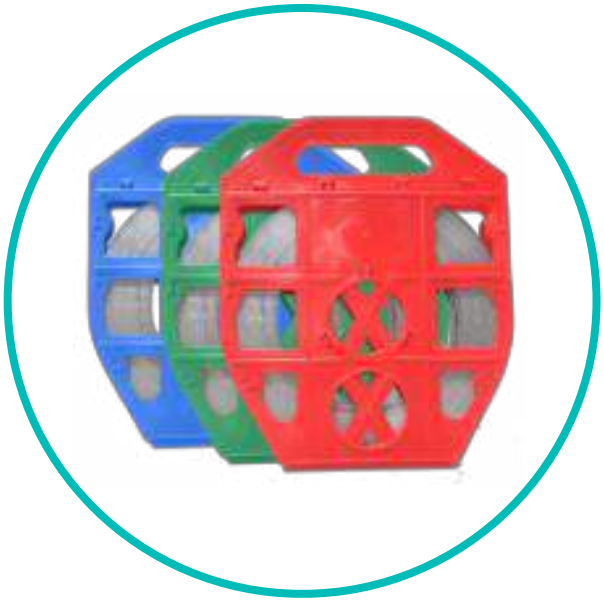
FechometalUSA

Stainless Steel Band – Data Sheet



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1 – Introduction

This specification is designed to define manufacturer characteristics and the use of Fechometal stainless steel bands. Information about products operation. main characteristics and dimensions of all models will be described in this document.

2 – Description

The stainless steel bands are used in poles and posts to fasten external telecommunications networks. Construction. offshore and traffic signs. Through an easy lock system. Fechometal bands offer an efficient grip without deforming and without harming the performance of the installation.

3 – Characteristics

3.1 – General Characteristics

- Easy application;
- High weather resistance;
- Corrosion resistance;
- Low magnetic permeability (with stainless steel 304 and 316);
- Client identification (optional);
- No sharp edges

3.2 – Chemical Composition Characteristics

The bands can be supplied in stainless steel 430, 201, 304 and 316 or galvanized steel.

	Chemical Composition					
Types of Steel	**Elements**	**Galvanized Carbon Steel**	**SS 430**	**SS 201**	**SS 304**	**SS 316**
Chemical Composition (%)	**C**	0.35 Max.	0.12 Max.	0.15 Max.	0.08 Max.	0.08 Max.
	Mn	0.6-1.05 Max.	1.00 Max.	5.50 - 7.50	2.00 Max.	2.00 Max.
	P	0.04 Max.	0.04 Max.	0.06 Max.	0.045 Max.	0.045 Max
	S	0.05 Max.	0.032 Max.	0.03 Max.	0.032 Max.	0.032 Max
	Si	0.10-0.35 Max.	1.00 Max.	0.75 Max.	0.75 Max.	0.75 Max.
	Cr	-	16.00 -18.00	16.00 -18.00	18.00 -20.00	16.00 -18.00
	Ni	-	0.75 Max.	3.50 - 5.50	8.00 - 10.50	10.00 -14.00
	N	-	-	0.25 Max	0.10 Max.	-
	Mo	-	-		-	2.00 - 3.00

3.3 – Mechanical Characteristics

Mechanical Properties	Galvanized Carbon Steel	SS 430	SS 201	SS 304	SS 316
Rockwell Hardness	80 - 95 RB	75 - 90 RB	90 - 95RB	70 – 90 RB	70 – 85 RB
Ultimate Tensile Strength	84.000	55.000	100,000	75.000	80.000
Yield Strength	80.000	40.000	45.000	30.000	35.000
% of Elongation in 2 inches	5	20	40	30	35

4 – Dimension

Width		Thickness		Average Breaking Strength		Length	Package approx. Weight	
In	mm	In	mm	Kg	Lbs		Kg	Lbs
1/4"	6.35	0.015	0.4	136	300	100’	0.71	1.56
		0.020	0.5	204	450		0.87	1.93
		0.032	0.8	294	650		1.37	3.02
		0.040	1	363	800		1.70	3.75
3/8"	9.53	0.015	0.4	204	450	100’	1.04	2.29
		0.020	0.5	272	600		1.28	2.82
		0.025	0.6	340	750		1.52	3.35
		0.030	0.7	408	900		1.76	3.89
1/2"	12.7	0.015	0.4	272	600	100’	1.37	3.01
		0.020	0.5	385	850		1.68	3.71
		0.025	0.6	454	1000		2.00	4.41
		0.030	0.7	544	1200		2.32	5.12
		0.032	0.8	612	1350		2.64	5.82
5/8"	15.8	0.015	0.4	340	750	100’	1.69	3.72
		0.020	0.5	454	1000		2.08	4.59
		0.025	0.6	567	1250		2.47	5.45
		0.030	0.7	680	1500		2.87	6.32
		0.032	0.8	748	1650		3.26	7.18
3/4"	19.05	0.015	0.4	408	900	100’	2.02	4.46
		0.020	0.5	578	1275		2.50	5.50
		0.025	0.6	721	1590		2.97	6.54
		0.030	0.7	816	1800		3.44	7.58
		0.032	0.8	885	1950		3.91	8.61
		0.040	1	1197	2640		4.85	10.69
		0.047	1.2	1251	2760		5.79	12.77
1"	25.4	0.020	0.5	635	1400	100’	3.31	7.29
		0.030	0.7	885	1950		4.55	10.04
		0.032	0.8	953	2100		5.18	11.41
		0.040	1	1596	3520		6.42	14.16
1.1/4"	31.75	0.020	0.5	646	1425	100’	4.12	9.07
		0.032	0.8	1020	2250		6.45	14.21
		0.035	0.89	1507	3322		7.00	15.44
		0.040	1	1995	4400		8.00	17.63
		0.044	1.1	2571	5666		9.00	19.85

5. Packing and Transportation

The Fechometal bands are packed in boxes which preserve its original features and allow a perfect transport and storage.

Each box is identified with the following information:

- Product name;
- Product dimension;
- Type of material;

6. Remarks

Any comments. suggestions or other information related to this document may be directed to Fechometal Development Sector (engenharia@fechometal.com).