



INOX ferrule

3.9 INOX FERRULES TALURIT® SYSTEM

GENERAL DESCRIPTION

INOX turnback ferrules are made from stainless steel, AISI 316, and are mainly intended to be used together with stainless steel wire rope where galvanic corrosion is to be avoided. EN 13411-3 does not mention stainless steel as a material but the INOX ferrules have been validated according to the Talurit® splicing system, which is within the type testing framework of EN 13411-3.

Available in sizes from 1-32. Special sizes on request.

APPLICATIONS

The ferrules are commonly used in applications within the food processing industry and the nuclear industry where there are high demands on corrosion resistance. They also have common uses in marine applications and architectural designs e.g. balustrades and fencing.

TO BE NOTED

These ferrules are normally used on stainless steel wire ropes to achieve the best possible resistance against corrosion.

TALURIT® SPLICING SYSTEM Selection table for INOX turnback ferrules

Ferrule		Measured Wire Rope Diameter Range (mm)				Die ID	Quality control after swaging		Force
Ferrule No.	Fill factor 0,42 ≤ f ≤ 0,52 Fibre Core (0,330 ≤ C ≤ 0,410)		Fill factor 0,52 < f ≤ 0,58 Steel Core (0,410 < C ≤ 0,456)		Dies marked	Diameter after swaging		Required force, approx.	
INOX	Min	Max	Min	Max	INOX	mm	Tol	kN	
1	0,9	1,1	0,8	1,1	1	3,4	+0,1 0	10	
1,5	1,2	1,6	1,2	1,6	1,5	4,1	±0,2	20	
2	1,7	2,3	1,7	2,1	2	4,7	±0,2	40	
2,5	2,4	2,7	2,2	2,6	2,5	5	±0,2	60	
3	2,8	3,3	2,7	3,1	3	6	+0,2 0	90	
4	3,4	4,2	3,2	4,1	4	8	±0,2	160	
5	4,3	5,4	4,2	5,1	5	10,7	+0,3 0	250	
6	5,5	6,4	5,2	6,1	6*	12,3	±0,3	300	
7	6,5	7,4	6,2	7,1	7*	14	+0,3 0	400	
8	7,5	8,4	7,2	8,1	8*	16,4	±0,4	500	
9	8,5	9,5	8,2	9,1	9*	18,4	±0,4	650	
10	9,6	10,5	9,2	10,1	10*	20,4	±0,4	800	
11	10,6	11,5	10,2	11,1	11	21,5	±0,4	950	
12	11,6	12,6	11,2	12,2	12*	24	+0,4 0	1 100	
13	12,7	13,6	12,3	13,2	13*	26	+0,4 0	1 300	
14	13,7	14,6	13,3	14,2	14*	28	+0,5 0	1 500	
16	14,7	16,7	14,3	16,2	16*	32	+0,5 0	1 800	
18	16,8	19,0	16,3	18,2	18	36	+0,6 0	2 200	
20	19,1	21,0	18,3	20,2	20	40	+0,6 0	2 700	
22	21,1	23,1	20,3	22,2	22	44	+0,6 0	3 200	
24	23,2	25,2	22,3	24,2	24	48	+0,8 0	3 800	
26	25,3	27,3	24,3	26,4	26	52	+0,8 0	4 600	
28	27,4	29,4	26,5	28,4	28	56	+0,8 0	5 200	
30	29,5	31,5	28,5	30,4	30	60	+0,8 0	6 000	
32	31,6	33,6	30,5	32,4	32	64	+0,8 0	6 800	

*Dies suitable for swaging STS ferrules in the corresponding size. Dies marked STS/INOX.

Please note that these instructions are only applicable to products produced and supplied by Talurit Group!



INOX ferrule
(Stainless steel)

f = Fill factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

C = Nominal metallic cross-sectional area factor of the rope

$$C = \frac{f \cdot \pi}{4}$$

INOX ferrules: The INOX ferrules have been validated according to TALURIT® splicing system. A termination performed according to our instructions will normally withstand a tensile strength of 90% of the minimum breaking load (MBL) of the wire rope. Please read our TALURIT® Splicing Instructions carefully to secure a safe and correct swaging operation.

Wire rope: Above table applies to new stainless steel single layer wire ropes with round strands and rope grade 1570. For higher tensile grade and higher fill factor, please contact our technical department.

Swaging: The INOX ferrules are swaged according to our specified swaging method for turnback ferrules. Please read the swaging instructions for turnback ferrules in chapter 4.

NOTE! We do not guarantee strength of slings for lifting activities made of INOX ferrules. A termination performed according to our instructions will normally withstand a tensile strength of 90% of the minimum breaking load (MBL) of the wire rope. Verifying tests must be done to find out the strength. Please read our TALURIT® Splicing Instructions carefully to secure a safe and correct swaging operation.

If the required pressure is higher than indicated in our tables or that the length after swaging does not match our given after swage dimensions, special care must be taken! This is an indication that something is wrong or not matching the parameters in our tables. All selection tables are recommendations built on test results, standard requirements and experience and must be seen as guidelines. There will always be cases where some specifications are different from what is proven. Always contact our technical department for guidance.