



THE SIAM INDUSTRIAL WIRE CO., LTD.
A **TATA** Enterprise

PC Wire



Low Relaxation

Standard		Nominal Diameter	Diameter Tolerance	Normal Area	Unit Weight	Weight Tolerance	Minimum Breaking Load	Minimum Yield Load			Force Ratio / Yield Ratio	Indent Depth	Width	Pitch	Minimum Elongation	Minimum Elongation at maximum force (Agt)	Minimum Reserve Bend	Straightness (AH)	1,000-HR. Relaxation (% MAX.)	MOE	Constriction (ROA)	Fatigue
	GRADE Mpa	mm	mm	mm²	kg./1000 m.		kN	kN 0.1%	kN 0.2%	at 1% extension		mm	mm	mm	%	%	Times			Gpa or kN/mm2	%	N/mm²
TIS 95 - 2540	1770	4		12.6	98.9	± 2.0 g/m	22.3	18.5	19.0			CH (3-face indented) ≤ 5mm = 0.07-0.17mm	CH ≤ 5mm, 3.5 min	CH ≤ 5mm, 5.5 min	3.5				80% Fm 4.5	195 - 215	-	2x10 ⁶ cycle 70% Fma Stress range 200 MPa for plain 180 MPa for indented
	1770	5		19.6	154	± 3.1 g/m	34.7	28.8	29.5			ID (oval indented)			3.5				4.5			
	1770	6		28.3	222	± 3.7 g/m	50.1	41.6	42.6			D4.0 = 0.05-0.20mm			3.5			4.5				
	1670	6		28.3	222	± 3.7 g/m	47.3	39.3	40.2			D5.0 = 0.05-0.20mm			3.5			4.5				
	1670	7	-	38.5	302	± 4.3 g/m	64.3	53.4	54.7	-	-	D7.0 = 0.10-0.25mm			3.5			4.5				
	1570	7		38.5	302	± 4.3 g/m	60.4	50.1	51.3			D9.0 = 0.15-0.25mm			3.5			4.5				
	1670	8		50.3	395	± 5.9 g/m/	84.0	69.7	71.4						3.5			4.5				
	1570	8		50.3	395	± 5.9 g/m/	79.0	65.6	67.1						3.5			4.5				
	1470	9		63.6	499	± 7.2 g/m	93.5	74.8	76.7						3.5			4.5				
AS 4672:2025	1770 1700 1670	5.00 5.03 7.00	-	19.60 19.90 38.50	154 156 302	±3.1 g/m ± 3.1 g/m ± 4.3 g/m	34.70 33.80 64.30	28.80 28.10 53.40	-	-	-	0.08 - 0.16 0.08 - 0.16 0.11 - 0.19	3.5 ± 0.5 3.5 ± 0.5 5.0 ± 0.5	5.5 ± 0.5 5.5 ± 0.5 8.0 ± 0.5	-	3.5 3.5 3.5	≥ 4 for plain ≥ 3 for indented	≤ 30 mm of 1 m.	80% Fm 3.0 3.0 3.0	195 - 215	-	2x10 ⁶ cycle of 70% Fm Stress range 200 MPa for plain 180 MPa for indented
ASTM A421 - 2015	WA	4.98	± 0.05	19.47	152.05	-	33.58	-	-	28.52	-	-	-	-	4.0	-	-	≤ 3 inch of 60 inch	80% Fm	-	-	-
		6.35	± 0.05	31.65	247.21		52.39			44.54					4.0				3.5			
7.01		± 0.05	38.57	301.27		62.49			53.12					4.0			3.5					
BA	4.98	± 0.05	19.47	152.05	-	32.22	-	-	27.39	-	-	-	-	4.0	-	-	3.5					
	6.35	± 0.05	31.65	247.21		52.39			44.54					4.0			3.5					
	7.01	± 0.05	38.57	301.27		62.49			53.12					4.0			3.5					
ASTM A648 -2012	1530	4.88	± 0.05	18.69			28.6-32.5											-	70% Fm 7.48	Internal spec 195 - 215	≥ 35% ≥ 35% ≥ 30% ≥ 30% ≥ 30% ≥ 30%	-
	1740	4.88	± 0.05	18.69			32.5-36.3											7.48				
	1450	6.35	± 0.05	31.65			46.1-52.6											7.48				
	1650	6.35	± 0.05	31.65	-	-	52.4-58.9	-	-	-	-							7.48				
	1390	7.92	± 0.05	49.24			68.4-78.6											7.48				
	1520	7.92	± 0.05	49.24			75.2-85.4											7.48				
ASTM A881 - 2016	1620 1720 1760	5.03 5.03 5.32	± 0.08 ± 0.08 ± 0.08	19.86 19.86 22.23	155.90 155.90 174.50	-	32.20 34.30 39.10	-	-	28.98 30.87 36.83	-	0.08 - 0.15 0.08 - 0.15 0.08 - 0.15	3.5 ± 0.5 3.5 ± 0.5 3.5 ± 0.5	5.5 ± 0.5 5.5 ± 0.5 5.46 ± 0.29	3.0 3.0 3.0	-	wire bend 6X	≤ 3 inch of 1.8 m.	80% Fm 3.5 3.5 3.5	-	-	-
BS 5896 - 2012	Y1770C	4.00	-	12.6	98.40	± 2 %	22.3-25.6	19.6				"T1 CH ≤ 5.0mm 0.06 - 0.13 (+/-0.03)"	3.0 - 4.0	5.2 - 5.8		3.5			80% Fma 4.5	-	≥ 25 % for plain ≥ 20 % for indented	-
	Y1770C	5.00	-	19.6	153.10	± 2 %	34.7-39.9	30.50	-	-		4.0 - 6.0	8 - 18		3.5			4.5				
	Y1860C	5.00	-	19.6	153.10	± 2 %	36.5-42.0	32.5				T2 INDENT 5.0mm only 0.06 - 0.16(+/-0.04)				3.5		4.5				
	Y1670C	6.00	-	28.3	221.00	± 2 %	47.3-54.4	41.6	-	-		T1 CH >5.0 to ≤7.0 mm 0.09 - 0.16(+/-0.04)	4.7 - 5.3	7.7 - 8.3	-	3.5		4.5				
	Y1770C	6.00	-	28.3	221.00	± 2 %	50.1-57.6	44.1							3.5			4.5				
	Y1570C	7.00	-	38.5	300.70	± 2 %	60.4-69.5	53.2	-	-		T2 INDENT 7.0mm only 0.06 - 0.16(+/-0.04)	4.4 - 6.4	10 - 20		3.5		4.5				
FprEN 10138 - 2009	Y1860C	4.0	-	12.6	98.4	± 2 %	23.4-26.9	20.8				T1 0.06 - 0.13(+/-0.03)	3.0 - 4.0	5.0 - 6.0		3.5			70% Fma 2.5	205	≥ 25 % for plain ≥ 20 % for indented	2x10 ⁶ cycle of 70% Fm Stress range 200 MPa for plain 180 MPa for indented
	Y1770C	4.0	-	12.6	98.4	± 2 %	22.3-25.6	19.6	-	-		T1 0.06 - 0.13(+/-0.03)				3.5			2.5			
	Y1770C	5.0	-	19.6	153.1	± 2 %	34.7-39.9	30.5				T1 0.06 - 0.13(+/-0.03)				3.5			2.5			
	Y1670C	5.0	-	19.6	153.1	± 2 %	32.7-37.6	28.8				T1 0.06 - 0.13(+/-0.03)				3.5			2.5			
	Y1770C	6.0	-	28.3	221.0	± 2 %	50.1-57.6	44.1				T1 0.09 - 0.16(+/-0.04)	4.5 - 5.5	7.5 - 8.5		3.5			2.5			
	Y1670C	6.0	-	28.3	221.0	± 2 %	47.3-54.4	41.6				T1 0.09 - 0.16(+/-0.04)				3.5			2.5			
	Y1770C	7.0	-	38.5	300.7	± 2 %	64.3-73.9	56.6				T1 0.09 - 0.16(+/-0.04)				3.5			2.5			
	Y1670C	7.0	-	38.5	300.7	± 2 %	60.4-69.5	53.2				T1 0.09 - 0.16(+/-0.04)				3.5			2.5			
	Y1670C	7.5	-	44.2	345.2	± 2 %	73.8-84.9	64.9				T1 0.09 - 0.16(+/-0.04)				3.5			2.5			
	Y1670C	8.0	-	50.3	392.8	± 2 %	84.0-96.6	73.9				T1 0.09 - 0.16(+/-0.04)				3.5			2.5			
	Y1570C	9.0	-	63.6	496.7	± 2 %	99.9-115	86.9				T1 0.10 - 0.20(+/-0.05)				3.5			2.5			
	Y1570C	9.5	-	-	553.7	± 2 %	111-128	96.6				T1 0.10 - 0.20(+/-0.05)				3.5			2.5			



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ASQPE
N° SIW(R)-19



D.M. 17.01.2018
Norme tecniche per le costruzioni
classe 1420/1620 MPa
Attestato di Qualificazione
n. 007/25-CAP



K-0209131



Low Relaxation

Standard		Nominal Diameter	Diameter Tolerance	Normal Area	Unit Weight	Weight Tolerance	Minimum Breaking Load	Minimum Yield Load			Force Ratio / Yield Ratio	Indent Depth	Width	Pitch	Minimum Elongation	Minimum Elongation at maximum force (Agt)	Minimum Reserve Bend	Straightness (AH)	1,000-HR. Relaxation (% MAX.)	MOE	Constriction (ROA)	Fatigue					
	GRADE Mpa	mm	mm	mm²	kg./1000 m.		kN	kN 0.1%	kN 0.2%	at 1% extension		mm	mm	mm	%	%	Times			Gpa or kN/mm2	%	N/mm²					
prEN 10138 - 2012	Y1860C	4.0	-	12.60	98.4	± 2 %	23.4-26.9	20.8				T1 0.06 - 0.13(+/-0.03)	3.0 - 4.0	5.0 - 6.0		3.5	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	70% Fma 2.5	-	≥ 25 % for plain ≥ 20 % for indented	2x10 ⁶ cycle of 70% Fma Stress range Area x 200 MPa for plain Area x 180 MPa for indented					
	Y1770C	4.0	-	12.6	98.4	± 2 %	22.3-25.6	19.6				T1 0.06 - 0.13(+/-0.03)			3.5												
	Y1860C	5.0	-	19.6	153.1	± 2 %	36.5-42.0	32.5	-	-	-	T1 0.06 - 0.13(+/-0.03)			3.5												
	Y1770C	5.0	-	19.6	153.1	± 2 %	34.7-39.9	30.5				T1 0.06 - 0.13(+/-0.03)			3.5												
	Y1670C	5.0	-	19.6	153.1	± 2 %	32.7-37.6	28.8				T1 0.06 - 0.13(+/-0.03)			3.5												
	Y1770C	6.0	-	28.3	221.0	± 2 %	50.1-57.6	44.1				T1 0.09 - 0.16(+/-0.04)	4.5 - 5.5	7.5 - 8.5		3.5											
	Y1770C	6.0	-	28.3	221.0	± 2 %	47.3-54.4	41.6				T1 0.09 - 0.16(+/-0.04)			3.5												
	Y1770C	7.0	-	38.5	300.7	± 2 %	68.1-78.3	59.9				T1 0.09 - 0.16(+/-0.04)			3.5												
	Y1670C	7.0	-	38.5	300.7	± 2 %	64.3-73.9	56.6				T1 0.09 - 0.16(+/-0.04)			3.5												
	Y1570C	7.0	-	38.5	300.7	± 2 %	60.4-69.5	53.2	-	-	-	T1 0.09 - 0.16(+/-0.04)			3.5												
	Y1670C	6.0	-	28.3	221.0	± 2 %	47.3-54.4	41.6				T1 0.09 - 0.16(+/-0.04)			3.5												
	Y1670C	7.5	-	44.2	345.2	± 2 %	73.8-84.9	64.9				T1 0.09 - 0.16(+/-0.04)			3.5												
	Y1670C	8.0	-	50.3	392.8	± 2 %	84.0-96.6	73.9				T1 0.09 - 0.16(+/-0.04)			3.5												
	Y1570C	9.0	-	63.6	496.7	± 2 %	99.9 - 115	86.9				T1 0.10 - 0.20(+/-0.05)			3.5												
	Y1570C	9.5	-	70.9	553.7	± 2 %	111-128	96.6				T1 0.10 - 0.20(+/-0.05)			3.5												
JIS JIS 3536 - 2014	SWPD1L (indent) and SWPR1AL (plain)	4.00	± 0.04	12.57	98.70		21.10		18.60			-	-	-	3.5		-	-	70% Fm 2.5	-	-	-					
		5.00	± 0.05	19.64	154.00		31.90		27.90			-	-	4.0		-	-	2.5									
		6.00	± 0.05	28.27	222.00	-	44.10	-	38.70	-	-	-	-	4.0		-	-	2.5									
		7.00	± 0.05	38.48	302.00		58.30		51.00			-	-	4.5		-	-	2.5									
		8.00	± 0.06	50.27	395.00		74.00		64.20			-	-	4.5		-	-	2.5									
	9.00	± 0.06	63.62	499.00		90.20		78.00			-	-	4.5		-	-	2.5										
	SWPR1BL (plain)	5.00	± 0.05	19.64	154.00	-	33.80	-	29.90	-	-	-	-	4.0		-	-	-	2.5								
	7.00	± 0.05	38.48	302.00		62.30		54.90	-	-	-	-	4.5		-	-	-	2.5									
	8.00	± 0.06	50.27	395.00		78.90		69.10			-	-	4.5		-	-	-	2.5									
LNEC E452 - 2020	1770	4.00	-	12.60	98.40	± 2 %	22.3-25.6	19.60				0.06 - 0.13 (+/-0.03)	3.0 - 4.0	5.0 - 6.0		3.5	-	≤ 25 mm of 1 m.	70% Fma 2.5	195 - 215	≥ 25 % for plain ≥ 20 % for indented	2x10 ⁶ cycle of 70% Fma Stress range Area x 200 MPa for plain Area x 180 MPa for indented					
	1860	4.00	-	12.60	98.40	± 2 %	23.4-26.9	20.80				0.06 - 0.13 (+/-0.03)			3.5												
	1770	5.00	-	19.60	153.10	± 2 %	34.7-39.9	30.50				0.06 - 0.13 (+/-0.03)			3.5												
	1860	5.00	-	19.60	153.10	± 2 %	36.5-42.0	32.50				0.06 - 0.13 (+/-0.03)			3.5												
	1770	6.00	-	28.30	221.00	± 2 %	50.1-57.6	44.10				0.09 - 0.16 (+/-0.04)			3.5												
	1670	7.00	-	38.50	300.70	± 2 %	64.3-73.9	56.60	-	-	0.85 - 0.95	0.09 - 0.16 (+/-0.04)	4.5 - 5.5	7.5 - 8.5		3.5											
	1670	8.00	-	50.30	392.80	± 2 %	84.0-96.6	73.90				0.09 - 0.16 (+/-0.04)			3.5												
	1570	9.40	-	69.40	542.00	± 2 %	109.0-125.0	94.80				0.10 - 0.20 (+/-0.05)			3.5												
	1570	9.50	-	70.90	553.70	± 2 %	111.0-128.0	96.60				0.10 - 0.20 (+/-0.05)			3.5												
	1570	10.00	-	78.50	613.10	± 2 %	123.0-141.0	107.00				0.10 - 0.20 (+/-0.05)			3.5												
	1570	10.50	-	86.60	676.30	± 2 %	136.0- 156.0	118.00				0.10 - 0.20 (+/-0.05)			3.5												
NF-A35-045-2	1860	4.0 - CA	-	12.60	98.4	± 2 %	23.40	21.00				0.04 - 0.08	3.0 - 4.0	5.0 - 6.0		3.5	3 3 3 4 4	≤ 25 mm	80% Fma 4.5	190 - 215	≥ 25 % for plain ≥ 20 % for indented	2x10 ⁶ cycle of 70% Fma Area x 200 MPa for plain Area x 180 MPa for indented					
	1860	5.0 - CA	-	19.60	153.10	± 2 %	36.50	32.50	-	-	-	0.05 - 0.09			3.5												
	1860	5.0 - CB	-	19.60	153.10	± 2 %	36.50	32.50				0.07 - 0.13			3.5												
	1670	8.0-Smooth	-	50.30	392.80	± 2 %	84.00	75.00				-	3.5														
	1570	9.4-Smooth	-	69.40	542.00	± 2 %	109.00	97.00	-	-	-	-	3.5														
MS 1138 - 2 2007	1770	4.00	-	12.60	98.90	± 2.0 g/m	22.30		19.00			0.07 - 0.17	3.5 min	5.5 min		3.5	-	≤ 30 mm of 1 m.	80% Fm 4.5	195 - 215	≥ 25 % for plain ≥ 20 % for indented	2x10 ⁶ cycle of 70% Fma Stress range 200 MPa for plain 180 MPa for indented					
	1670	4.00	-	12.60	98.90	± 2.0 g/m	21.00	-	17.90	-	-	0.07 - 0.17			3.5												
	1770	5.00	-	19.60	154.00	± 3.1 g/m	34.70		29.80			0.07 - 0.17			3.5												
	1670	5.00	-	19.60	154.00	± 3.1 g/m	32.70		27.80			0.07 - 0.17			3.5												
	1770	6.00	-	28.30	222.00	± 3.7 g/m	50.10		42.60			0.10 - 0.20	5.0 min	8.0 min		3.5											
	1670	6.00	-	28.30	222.00	± 3.7 g/m	47.30		40.20			0.10 - 0.20			3.5												
	1670	7.00	-	38.50	302.00	± 4.3 g/m	64.30		54.70			0.10 - 0.20			3.5												
	1570	7.00	-	38.50	302.00	± 4.3 g/m	60.40		51.30			0.10 - 0.20			3.5												
	1670	8.00	-	50.30	395.00	± 5.9 g/m	84.00	-	71.40	-	-	0.10 - 0.20			3.5												
	1570	8.00	-	50.30	395.00	± 5.9 g/m	79.00		67.10			0.10 - 0.20			3.5												
	1470	9.00	-	63.60	499.00	± 7.2 g/m	93.50		76.70																		
SNI 1155 - 2011	KBjP-R (1670)	5.00	± 0.05	-	-	-	31.87		27.95			-	-	-	4.0		-	-	70% Fma 2.5	-	-	-					
	KBjP-R (1570)	7.00	± 0.05	-	-	-	58.35	-	50.94	-		-	-	-	4.5		-	-	2.5								
	KBjP-R (1470)	9.00	± 0.06	-	-	-	90.22		77.96			-	-	-	4.5		-	-	2.5								



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Low Relaxation

Standard		Nominal Diameter	Diameter Tolerance	Normal Area	Unit Weight	Weight Tolerance	Minimum Breaking Load	Minimum Yield Load			Force Ratio / Yield Ratio	Indent Depth	Width	Pitch	Minimum Elongation	Minimum Elongation at maximum force (Agt)	Minimum Reserve Bend	Straightness (AH)	1,000-HR. Relaxation (% MAX.)	MOE	Constriction (ROA)	Fatigue
	GRADE Mpa	mm	mm	mm ²	kg./1000 m.		kN	kN 0.1%	kN 0.2%	at 1% extension		mm	mm	mm	%	%	Times			Gpa or kN/mm2	%	N/mm ²
NBR 7482 - 2021	CP 175 RB 4 E	4.00	± 0.05	12.6	98	96.1 - 101	21.0	-	-	18.9	-	0.30 - 0.16	3.0 - 4.0	5.0 - 6.0	3.0		3		80% Fm 3.0			
	CP 175 RB 5 E	5.00	± 0.05	19.6	154	151 - 157	33.0	-	-	29.7	-				3.0		3		3.0	-	-	-
	CP 175 RB 6 E	6.00	± 0.05	28.3	222	218 - 226	47.7			43.0					3.0	-	3	-	3.0			
	CP 170 RB 7 E	7.00	± 0.05	38.5	302	298 - 306	63.3			56.9					3.0		3		3.0			
	CP 150 RB 8 E	8.00	± 0.05	50.3	395	389 - 399	73.0	-	-	65.7	-	0.05 - 0.21	4.5 - 5.5	7.5 - 8.5	3.0		3		3.0			
	CP 145 RB 9 E	9.00	± 0.05	63.6	499	494 - 505	89.5			80.5					3.0		3		3.0			
GB/T 5223-2014	1670	5.00	± 0.05	19.63	154	± 2.0 %	32.78-36.71			28.82		0.07 - 0.17	3.0 - 4.0	5.0 - 6.0		3.5	4					
	1770	5.00	± 0.05	19.63	154	± 2.0 %	34.75-38.68			30.58		0.07 - 0.17	3.0 - 4.0	5.0 - 6.0		3.5	4					
	1670	6.25	± 0.05	30.68	241	± 2.0 %	51.24-57.38	-		45.09	-	0.10 - 0.20	4.5 - 5.5	7.5 - 8.5		3.5	4	-	-	-	-	-
	1670	7.00	± 0.05	38.48	302	± 2.0 %	64.26-71.96			56.55		0.10 - 0.20	4.5 - 5.5	7.5 - 8.5		3.5	4					
	1770	7.00	± 0.05	38.48	302	± 2.0 %	68.11-75.81			59.94		0.10 - 0.20	4.5 - 5.5	7.5 - 8.5		3.5	4					
UNE 36094 - 1997	Y 1770 C	3.00	-	7,07 ± 0.14	55,5	-	12.5-14.6	10,4	10,6	-	-	0.02-0.06				3.5			80% Fma 4.5			
	Y 1770 C	4.00	-	12.6 ± 0.25	98,6	-	22.3-26.1	18,5	19,0	-	-	Type1 0.03-0.07				3.5			4.5			
	Y 1860 C	4.00	-	12.6 ± 0.25	98,6	-	23,4-27,4	19,4	19,9	-	-	Type2 0.05-0.09				3.5			4.5			
	Y 1770 C	5.00	-	19.6 ± 0.39	154	-	34.7-40.6	28,8	29,5	-	-	Type1 0.04-0.08				3.5			4.5	190.65	≥ 25	2x10 ⁶ cycle of 70% Fma
	Y 1860 C	5.00	-	19.6 ± 0.39	154	-	36.5-42.7	30,3	31,0	-	-	Type2 0.06-0.10				3.5	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	4.5	-		Stress range 200 MPa for plain 180 MPa for indented
	Y 1770 C	6.00	-	28,3 ± 0.47	222	-	50.1-58.6	41,6	42,6	-	-	Type1 0.05-0.10 Type2 0.08-0.13				3.5			4.5			
	Y 1670 C	7.00	-	38.5 ± 0.58	302	-	64.3-75.2	53,4	54,7	-	-	Type1 0.06-0.12				3.5			4.5			
	Y 1670 C	7.50	-	44,2 ± 0.66	347	-	73.8-86.3	61,3	62,7	-	-	Type2 0.10-0.20	5.0 ± 0.5	8.0 ± 0.5		3.5			4.5			
	Y 1670 C	8.00	-	50,3 ± 0.75	395	-	84.0-98.3	69,7	71,4	-	-					3.5			4.5			
NEN 3868:2001 & BRL2401 - 2018	FeP 1770	4.00	-	-	96-100		22.3-25.6	19.6			0.85-0.95	0.09-0.15				3.5			80% Fm 4.5			
	FeP 1770	5.00	-	-	150-156		34.7-39.9	30.5				0.09-0.15				3.5			4.5			
	FeP 1670	6.00	-	-	217-225	-	47.3-54.4	41.6				0.11-0.19				3.5	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	4.5	-	≥ 25	2x10 ⁶ cycle of 70% Fma
	FeP 1670	7.00	-	-	295-307		64.3-73.9	56.6				0.11-0.19				3.5			4.5			Stress range 200 N/mm2
	FeP 1670	8.00	-	-	385-401		84.0-96.6	73.9				0.11-0.19				3.5			4.5			
GOST 7348-81	1780	3.00	± 0.04	7.07	55.5		12.60		10.59			≥ 0.15			4				70% Fma 2.5			
	1700	4.00	± 0.04	12.57	98.7		21.38		17.95			≥ 0.19			4				2.5			
	1670	5.00	± 0.05	19.63	154.1	-	32.70		27.47			≥ 0.24			4				2.5	180 - 200	≥ 25	-
	1670	6.00	± 0.05	28.27	221.9		47.28	-	39.73	-	-	≥ 0.30			5			≤ 25 mm of 1 m.	2.5			
	1570	7.00	± 0.05	38.48	302.1		60.42		50.71			≥ 0.35			6				2.5			
	1470	8.00	± 0.06	50.27	394.6		73.96		61.99			≥ 0.40			6				2.5			
UNI 7675 : 2016	1570	7.00	-	38.5	300.7		60.50	54.7			0.85 - 0.95					3.5			70% Fma 2.5			
	1570	8.00	-	50.3	392.8		79.00	71.5								3.5			2.5			
	1570	8.80	-	60.8	474.8		95.50	86.4								3.5			2.5	195 - 215	≥ 25	2x10 ⁶ cycle of 70% Fma
	1570	9.40	-	69.4	542.0	± 2.0%	109.00	90.3	-	-						3.5	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	2.5			Stress range 200 MPa for plain 180 MPa for indented
	1670	7.00	-	38.5	300.7		64.30	56.6								3.5			2.5			
	1670	8.00	-	50.3	392.8		84.00	74.0								3.5			2.5			
	1770	7.00	-	38.5	300.7		68.20	60.5								3.5			2.5			
NBN I 10-002 : 1987	1770	4.00	± 0.04	12.6 ± 0.25	98.9	± 2.0 g/m	22.3	18.5	19.0	-	1.025 min	0.07 - 0.17	3.0 - 4.0	5.0 - 6.0		3.5			70% Fma 2.5			
	1860	4.00	± 0.04	12.6 ± 0.25	98.9	± 2.0 g/m	23.4	21.0	19.9	-						3.5			2.5			
	1770	5.00	± 0.05	19.6 ± 0.39	154.0	± 3.1 g/m	34.7	28.8	29.5	-						3.5	≥ 6 for plain ≥ 5 for indented		2.5			
	1860	5.00	± 0.05	19.6 ± 0.39	154.0	± 3.1 g/m	36.5	31.0	32.5	-						3.5		≤ 25 mm of 1 m.	2.5	195 - 215	≥ 25	2x10 ⁶ cycle of 80% Fma
	1770	6.00	± 0.05	28.3 ± 0.47	222.0	± 3.7 g/m	50.1	41.6	42.6	-	1.025 min	0.10 - 0.20	4.5 - 5.5	7.5 - 8.5		3.5	≥ 5 for plain ≥ 4 for indented		2.5			Stress range 200 MPa for plain 180 MPa for indented
	1670	7.00	± 0.05	38.5 ± 0.55	302.0	± 4.3 g/m	64.3	53.4	54.7	-						3.5			2.5			
	1770	7.00	± 0.05	38.5 ± 0.55	302.0	± 4.3 g/m	68.2	56.6	58.0	-						3.5			2.5			
prEN 10138-2006 & DIBt (GERMANY)	1770	7.00	± 0.07	38.5 ± 2.0%	301	-	68.10	59.9	60.4	-	1.05 - 1.18	-	-	-	-	3.5	≥ 3 plain	≤ 25 mm of 1 m.	70% Fma 2.0	-	≥ 25 % for plain wire	Woehler curve upper force 07Fma