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 1770 1770 1670 1670 1570 1670 1570 1470	4 5 6 6 7 7 8 8 9	-	12.6 19.6 28.3 28.3 38.5 38.5 50.3 50.3 63.6	98.9 154 222 222 302 302 395 395 499	± 2.0 g/m ± 3.1 g/m ± 3.7 g/m ± 3.7 g/m ± 4.3 g/m ± 4.3 g/m ± 5.9 g/m/ ± 5.9 g/m/ ± 7.2 g/m	22.3 34.7 50.1 47.3 64.3 60.4 84.0 79.0 93.5	18.5 28.8 41.6 39.3 53.4 50.1 69.7 65.6 74.8	19.0 29.5 42.6 40.2 54.7 51.3 71.4 67.1 76.7	-	-	CH (3-face indented) ≤ 5mm = 0.07-0.17mm ID (oval indented) D4.0 = 0.05-0.20mm D5.0 = 0.05-0.20mm D7.0 = 0.10-0.25mm D9.0 = 0.15-0.25mm	CH ≤ 5mm, 3.5 min	CH ≤ 5mm, 5.5 min	3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	-	≥ 4 for plain ≥ 3 for indented	≤ 30 mm of 1 m.	80% Fm 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	195 - 215	-	2x10⁶ cycle 70% Fma Stress range 200 MPa for plain 180 MPa for indented
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	-	2x10⁶ cycle of 70% Fm Stress range 200 MPa for plain 180 MPa for indented
ASTM A421 - 2015	WA	4.98 6.35 7.01	± 0.05 ± 0.05 ± 0.05	19.47 31.65 38.57	152.05 247.21 301.27	-	33.58 52.39 62.49	-	-	28.52 44.54 53.12	-	-	-	-	4.0 4.0 4.0	-	-	≤ 3 inch of 60 inch	80% Fm 3.5 3.5 3.5 3.5	-	-	-
	BA	4.98 6.35 7.01	± 0.05 ± 0.05 ± 0.05	19.47 31.65 38.57	152.05 247.21 301.27	-	32.22 52.39 62.49	-	-	27.39 44.54 53.12	-	-	-	-	4.0 4.0 4.0	-	-					
ASTM A648 -2012	1530 1740 1450 1650 1390 1520	4.88 4.88 6.35 6.35 7.92 7.92	± 0.05 ± 0.05 ± 0.05 ± 0.05 ± 0.05 ± 0.05	18.69 18.69 31.65 31.65 49.24 49.24	-	-	28.6-32.5 32.5-36.3 46.1-52.6 52.4-58.9 68.4-78.6 75.2-85.4	-	-	-	-	-	-	-	-	-	-	-	70% Fm 7.48 7.48 7.48 7.48 7.48 7.48	Internal spec 195 - 215	≥ 35% ≥ 35% ≥ 30% ≥ 30% ≥ 30% ≥ 30%	-
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 Y1770C Y1860C	4.00 5.00 5.00	- - -	12.6 19.6 19.6	98.40 153.10 153.10	± 2 % ± 2 % ± 2 %	22.3-25.6 34.7-39.9 36.5-42.0	19.6 30.50 32.5	-	-	-	"T1 CH ≤ 5.0mm 0.06 - 0.13 (+/-0.03)" T2 INDENT 5.0mm only 0.06 - 0.16(+/-0.04)	3.0 - 4.0 4.0 - 6.0	5.2 - 5.8 8 - 18	-	3.5 3.5 3.5	≥ 4 for plain ≥ 3 for indented	-	80% Fma 4.5 4.5 4.5	-	≥ 25 % for plain ≥ 20 % for indented	-
	Y1670C Y1770C	6.00 6.00	- -	28.3 28.3	221.00 221.00	± 2 % ± 2 %	47.3-54.4 50.1-57.6	41.6 44.1	-	-	-	T1 CH >5.0 to ≤7.0 mm 0.09 - 0.16(+/-0.04)	4.7 - 5.3	7.7 - 8.3	-	3.5 3.5			4.5 4.5	-		
	Y1570C Y1670C	7.00 7.00	- -	38.5 38.5	300.70 300.70	± 2 % ± 2 %	60.4-69.5 64.3-73.9	53.2 56.6	-	-	-	T2 INDENT 7.0mm only 0.06 - 0.16(+/-0.04)	4.4 - 6.4	10 - 20		3.5 3.5			4.5 4.5			
FprEN 10138 - 2009	Y1860C Y1770C Y1770C Y1670C	4.0 4.0 5.0 5.0	- - - -	12.6 12.6 19.6 19.6	98.4 98.4 153.1 153.1	± 2 % ± 2 % ± 2 % ± 2 %	23.4-26.9 22.3-25.6 34.7-39.9 32.7-37.6	20.8 19.6 30.5 28.8	-	-	0.85-0.95	T1 0.06 - 0.13(+/-0.03) T1 0.06 - 0.13(+/-0.03) T1 0.06 - 0.13(+/-0.03) T1 0.06 - 0.13(+/-0.03)	3.0 - 4.0	5.0 - 6.0	-	3.5 3.5 3.5 3.5	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	70% Fma 2.5 2.5 2.5 2.5	205	≥ 25 % for plain ≥ 20 % for indented	2x10⁶ cycle of 70% Fm Stress range 200 MPa for plain 180 MPa for indented
	Y1770C Y1670C Y1770C Y1670C Y1670C Y1670C Y1570C Y1570C	6.0 6.0 7.0 7.0 7.5 8.0 9.0 9.5	- - - - - - - -	28.3 28.3 38.5 38.5 44.2 50.3 63.6 -	221.0 221.0 300.7 300.7 345.2 392.8 496.7 553.7	± 2 % ± 2 % ± 2 % ± 2 % ± 2 % ± 2 % ± 2 % ± 2 %	50.1-57.6 47.3-54.4 64.3-73.9 60.4-69.5 73.8-84.9 84.0-96.6 99.9-115 111-128	44.1 41.6 56.6 53.2 64.9 73.9 86.9 96.6	-	-		T1 0.09 - 0.16(+/-0.04) T1 0.09 - 0.16(+/-0.04) T1 0.09 - 0.16(+/-0.04) T1 0.09 - 0.16(+/-0.04) T1 0.09 - 0.16(+/-0.04) T1 0.09 - 0.16(+/-0.04) T1 0.10 - 0.20(+/-0.05) T1 0.10 - 0.20(+/-0.05)	4.5 - 5.5	7.5 - 8.5	-	3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5			2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5			

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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)				3.5			70% Fma 2.5			
	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			
	Y1860C	5.0	-	19.6	153.1	± 2 %	36.5-42.0	32.5	-	-	-	T1 0.06 - 0.13(+/-0.03)	3.0 - 4.0	5.0 - 6.0		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)				3.5			2.5			
	Y1770C	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 %	68.1-78.3	59.9				T1 0.09 - 0.16(+/-0.04)				3.5			2.5			
	Y1670C	7.0	-	38.5	300.7	± 2 %	64.3-73.9	56.6				T1 0.09 - 0.16(+/-0.04)				3.5			2.5			
	Y1570C	7.0	-	38.5	300.7	± 2 %	60.4-69.5	53.2	-	-	-	T1 0.09 - 0.16(+/-0.04)	4.5 - 5.5	7.5 - 8.5	-	3.5	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	2.5	-	≥ 25 % for plain ≥ 20 % for indented	2x10⁶ cycle of 70% Fma Stress range Area x 200 MPa for plain Area x 180 MPa for indented
	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			
	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	-	70.9	553.7	± 2 %	111-128	96.6				T1 0.10 - 0.20(+/-0.05)				3.5			2.5			
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)				3.5			70% Fma 2.5			
	1860	4.00	-	12.60	98.40	± 2 %	23.4-26.9	20.80				0.06 - 0.13 (+/-0.03)				3.5			2.5			
	1770	5.00	-	19.60	153.10	± 2 %	34.7-39.9	30.50				0.06 - 0.13 (+/-0.03)	3.0 - 4.0	5.0 - 6.0		3.5			2.5			
	1860	5.00	-	19.60	153.10	± 2 %	36.5-42.0	32.50				0.06 - 0.13 (+/-0.03)				3.5			2.5			
	1770	6.00	-	28.30	221.00	± 2 %	50.1-57.6	44.10				0.09 - 0.16 (+/-0.04)				3.5			2.5			
	1670	7.00	-	38.50	300.70	± 2 %	64.3-73.9	56.60	-	-	0.85 - 0.95	0.09 - 0.16 (+/-0.04)			-	3.5	-	≤ 25 mm of 1 m.	2.5	195 - 215	≥ 25 % for plain ≥ 20 % for indented	2x10⁶ cycle of 70% Fma Stress range Area x 200 MPa for plain Area x 180 MPa for indented
	1670	8.00	-	50.30	392.80	± 2 %	84.0-96.6	73.90				0.09 - 0.16 (+/-0.04)				3.5			2.5			
	1570	9.40	-	69.40	542.00	± 2 %	109.0-125.0	94.80				0.10 - 0.20 (+/-0.05)	4.5 - 5.5	7.5 - 8.5		3.5			2.5			
	1570	9.50	-	70.90	553.70	± 2 %	111.0-128.0	96.60				0.10 - 0.20 (+/-0.05)				3.5			2.5			
	1570	10.00	-	78.50	613.10	± 2 %	123.0-141.0	107.00				0.10 - 0.20 (+/-0.05)				3.5			2.5			
	1570	10.50	-	86.60	676.30	± 2 %	136.0- 156.0	118.00				0.10 - 0.20 (+/-0.05)				3.5			2.5			
NF-A35-045-2	1860	4.0 - CA	-	12.60	98,4	± 2 %	23.40	21.00				0.04 - 0.08				3.5	3		80% Fma 4.5			
	1860	5.0 - CA	-	19.60	153.10	± 2 %	36.50	32.50	-	-	-	0.05 - 0.09	3.0 - 4.0	5.0 - 6.0		3.5	3		4.5			
	1860	5.0 - CB	-	19.60	153.10	± 2 %	36.50	32.50				0.07 - 0.13			-	3.5	3	≤ 25 mm	4.5	190 - 215	≥ 25 % for plain ≥ 20 % for indented	2x10⁶ cycle of 70% Fma Area x 200 MPa for plain Area x 180 MPa for indented
	1670	8.0-Smooth	-	50.30	392.80	± 2 %	84.00	75.00	-	-	-	-	-	-		3.5	4		4.5			
	1570	9.4-Smooth	-	69.40	542.00	± 2 %	109.00	97.00								3.5	4		4.5			
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			80% Fm 4.5			
	1670	4.00	-	12.60	98.90	± 2.0 g/m	21.00	-	17.90	-	-	0.07 - 0.17	3.5 min	5.5 min	-	3.5			4.5			
	1770	5.00	-	19.60	154.00	± 3.1 g/m	34.70		29.80			0.07 - 0.17				3.5			4.5			
	1670	5.00	-	19.60	154.00	± 3.1 g/m	32.70		27.80			0.07 - 0.17				3.5			4.5			
	1770	6.00	-	28.30	222.00	± 3.7 g/m	50.10		42.60			0.10 - 0.20				3.5			4.5			
	1670	6.00	-	28.30	222.00	± 3.7 g/m	47.30		40.20			0.10 - 0.20				3.5			4.5			
	1670	7.00	-	38.50	302.00	± 4.3 g/m	64.30		54.70			0.10 - 0.20				3.5			4.5			
	1570	7.00	-	38.50	302.00	± 4.3 g/m	60.40		51.30			0.10 - 0.20				3.5			4.5			
	1670	8.00	-	50.30	395.00	± 5.9 g/m	84.00	-	71.40	-	-	0.10 - 0.20	5.0 min	8.0 min	-	3.5	-	≤ 30 mm of 1 m.	4.5	195 - 215	≥ 25 % for plain ≥ 20 % for indented	2x10⁶ cycle of 70% Fma Stress range 200 MPa for plain 180 MPa for indented
	1570	8.00	-	50.30	395.00	± 5.9 g/m	79.00		67.10			0.10 - 0.20				3.5			4.5			
	1470	9.00	-	63.60	499.00	± 7.2 g/m	93.50		76.70			0.10 - 0.20				3.5			4.5			
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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	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
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	-	0.05 - 0.21	4.5 - 5.5	7.5 - 8.5	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					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	3.0 - 4.0	5.5 ± 0.5	-	3.5	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	80% Fma 4.5	190.65 - 219.35	≥ 25	2x10⁶ cycle of 70% Fma Stress range 200 MPa for plain 180 MPa for indented
	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			
	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			4.5			
	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	5.0 ± 0.5	8.0 ± 0.5		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				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	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	80% Fm 4.5	-	≥ 25	2x10⁶ cycle of 80% Fma Stress range 200 N/mm2
	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			4.5			
	FeP 1670	7.00	-	-	295-307		64.3-73.9	56.6				0.11-0.19				3.5			4.5			
	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	-	-	≤ 25 mm of 1 m.	70% Fma 2.5	180 - 200	≥ 25	-
	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			
	1670	6.00	± 0.05	28.27	221.9		47.28		39.73			≥ 0.30			5				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	± 2.0%	60.50	54.7	-	-	0.85 - 0.95	-	-	-	-	3.5	≥ 4 for plain ≥ 3 for indented	≤ 25 mm of 1 m.	70% Fma 2.5	195 - 215	≥ 25	2x10⁶ cycle of 70% Fma Stress range 200 MPa for plain 180 MPa for indented
	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			
	1570	9.40	-	69.4	542.0		109.00	90.3								3.5			2.5			
	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	≥ 6 for plain ≥ 5 for indented	≤ 25 mm of 1 m.	70% Fma 2.5	195 - 215	≥ 25	2x10⁶ cycle of 80% Fma Stress range 200 MPa for plain 180 MPa for indented
	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			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			2.5			
	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			
	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