THE SIAM INDUSTRIAL WIRE CO., LTD.
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มอก 420 - 2540 | ASQPE N° SIW(R)-19 | CARES 091001 | UKAS 0002 | PRODUCT CONFORMITY ASTM A416/A416M License No. CL08020080 | Certif PSG-019/2022 | ACRS 71201 | MS SIRIM | MS 1138:PART 4 : 2007 PC001581 | JIS TCTH08004 | FI No. 10056 | D.M. 17/01/2018 Norme tecniche per le costruzioni classe 1670/1860 Mpa Attestato di Qualificazione n. 005/25-CAP | Aplus | BENOR 322 NBN I 10-003 | 20 | K100130 | IS 14268-2022 CM/L-4100087481

Standard		Nominal Diameter	Difference Center & Outer	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Stress Ratio	Reduction of area	Minimum Elongation	Minimum Elongation at maximum force (Agt)	Straightness	1,000-HR. Relaxation (% MAX.)	MOE	Fatigue
										kN										
	GRADE Mpa	mm		mm	mm²	kg./1000 m.	%		kN	0.10%	0.20%	at 1.0% extension		%	%	%		Fm = Maximum force of specification Fma = Maximum force of actual	Gpa or kN/mm2	
TIS 420 - 1997	1860	9.5 11.1 12.7 15.2	≥ 2%	-	54.8 74.2 98.7 139	432 580 774 1101	+4/-2 +4/-2 +4/-2 +4/-2	12-18 12-18 12-18 12-18	102 138 184 259	83.6 113 151 212	86.6 117 156 220	-	-	-	3.5 3.5 3.5 3.5			80% Fm 4.5 4.5 4.5 4.5	-	2x10⁶ cycle of 70% Fm Stress range 195 MPa for all product
	1860 1820 1700	12.70 - C 15.20 - C 18.00 - C	≥ 2%	-	112 165 223	890 1295 1750	+4/-2 +4/-2 +4/-2	12-18 12-18 12-18	209 300 380	178 255 323	184 264 334	-	-	-	3.5 3.5 3.5			4.5 4.5 4.5		
AS 4672 - 2025	1850 1870 1870 1750 1830 1820	9.5 11.1 12.7 15.2 15.2 15.20-C	≥ 3%	-	55 73.9 98.7 143 143 165	432 580 774 1122 1122 1295	+4/-2 +4/-2 +4/-2 +4/-2 +4/-2 +4/-2	12-18 12-18 12-18 12-18 12-18 14-18	102 138 184 250 261 300	83.6 113 151 205 214 255	-	-	-	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5 3.5	195 ± 10 GPa	2x10⁶ cycle of 70% Fm Stress range 195 MPa for all product
ASTM A416 - 2006	1860 (270 K)	9.53 11.11 12.7 15.24 17.78	≥ 0.0508 mm ≥ 0.0635 mm ≥ 0.0762 mm ≥ 0.1016 mm ≥ 0.1143 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	54.8 74.2 98.7 140 189.7	432 582 775 1102 1487	-	12-16 12-16 12-16 12-16 12-16	102.3 137.9 183.7 260.7 353.2	-	-	92.1 124.1 165.3 234.6 318	-	-	3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5	-	-
ASTM A416 - 2010	1860 (270 K)	9.53 11.11 12.7 15.24 15.75 17.78	≥ 0.0508 mm ≥ 0.0635 mm ≥ 0.0762 mm ≥ 0.1016 mm ≥ 0.1016 mm ≥ 0.1143 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	54.8 74.2 98.7 140 149.2 189.7	432 582 775 1102 1173 1487	-	12-16 12-16 12-16 12-16 12-16 12-16	102.3 137.9 183.7 260.7 277.4 353.2	-	-	92.1 124.1 165.3 234.6 249.7 318	-	-	3.5 3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5 3.5	-	-
ASTM A416 - 2012	1860 (270 K)	9.53 11.1 12.7 15.2 15.7 17.8	≥ 0.051 mm ≥ 0.064 mm ≥ 0.076 mm ≥ 0.102 mm ≥ 0.102 mm ≥ 0.114 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	55 74.2 98.7 140 150 190	430 580 780 1100 1200 1500	-	12-16 12-16 12-16 12-16 12-16 12-16	102.0 138 184 261 279 353	-	-	92.1 124.1 165.3 234.6 251.4 318.0	-	-	3.5 3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5 3.5	-	-
ASTM A416 - 2015	1860 (270 K)	9.53 11.1 12.7 15.2 15.7 17.8	≥ 0.051 mm ≥ 0.064 mm ≥ 0.076 mm ≥ 0.102 mm ≥ 0.102 mm ≥ 0.114 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	55 74.2 98.7 140 150 190	430 580 780 1100 1200 1500	-	12-16 12-16 12-16 12-16 12-16 12-16	102 138 184 261 279 353	-	-	92.1 124.1 165.3 234.6 251.4 318.0	-	-	3.5 3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5 3.5	-	-
ASTM A416 - 2016	1860 (270 K)	9.53 11.1 12.7 15.2 15.7 17.8	≥ 0.051 mm ≥ 0.064 mm ≥ 0.076 mm ≥ 0.102 mm ≥ 0.102 mm ≥ 0.114 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	55 74.2 98.7 140 150 190	430 580 780 1100 1200 1500	-	12-16 12-16 12-16 12-16 12-16 12-16	102 138 184 261 279 353	-	-	92.1 124.1 165.3 234.6 251.4 318	-	-	3.5 3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5 3.5	-	-
ASTM A416 - 2017	1860 (270 K)	9.53 11.1 12.7 15.2 15.7 17.8	≥ 0.051 mm ≥ 0.064 mm ≥ 0.076 mm ≥ 0.102 mm ≥ 0.102 mm ≥ 0.114 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	55.0 74.2 98.7 140.0 150.0 190.0	430 580 780 1100 1200 1500	-	12-16 12-16 12-16 12-16 12-16 12-16	102 138 184 261 279 353	-	-	92.1 124.1 165.3 234.6 251.4 318.0	-	-	3.5 3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5 3.5	-	-

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Standard		Nominal Diameter	Difference Center & Outer	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Stress Ratio	Reduction of area	Minimum Elongation	Minimum Elongation at maximum force (Agt)	Straightness	1,000-HR. Relaxation (% MAX.)	MOE	Fatigue
										kN										
	GRADE Mpa	mm		mm	mm^2	kg./1000 m.	%		kN	0.10%	0.20%	at 1.0% extension		%	%	%		Fm = Maximum force of specification Fma = Maximum force of actual	Gpa or kN/mm2	
ASTM A416 - 2018	1860 (270 K)	9.53 11.1 12.7 15.2 15.7 17.8	≥ 0.0508 mm ≥ 0.0635 mm ≥ 0.076 mm ≥ 0.102 mm ≥ 0.1016 mm ≥ 0.1143 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	55.0 74.2 98.7 140.0 150.0 190.0	430 580 780 1100 1200 1500	-	12-16 12-16 12-16 12-16 12-16 12-16	102 138 184 261 279 353	-	-	92.1 124.1 165.3 234.6 251.4 318.0	-	-	3.5 3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5 3.5	-	-
ASTM A416 - 2024	1860 (270 K)	9.53 11.1 12.7 13.2 15.2 15.7 17.8	≥ 0.051 mm ≥ 0.064 mm ≥ 0.076 mm ≥ 0.076 mm ≥ 0.102 mm ≥ 0.102 mm ≥ 0.114 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.66/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	55 74.2 98.7 108 140 150 190	430 580 780 840 1100 1200 1500	-	12-16 12-16 12-16 12-16 12-16 12-16 12-16	102 138 184 201.17 261 279 353	-	-	92.1 124.1 165.3 180.2 234.6 251.4 318.0	-	-	3.5 3.5 3.5 - 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5 3.5 3.5	-	-
ASTM A886 - 2012	1860 (270 K)	7.90 - Indent 9.50 - Indent 11.10 - Indent 12.70 - Indent 15.20 - Indent	≥ 0.0381 mm ≥ 0.0508 mm ≥ 0.0635 mm ≥ 0.0762 mm ≥ 0.1016 mm	+0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15 +0.65/-0.15	39.9 54.8 74.2 98.7 140	313 432 582 775 1102	-	12-16 12-16 12-16 12-16 12-16	74.3 101.9 138 183.6 260.4	-	-	66.9 91.7 124.2 165.2 234.4	-	-	3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5 3.5	-	-
BS 5896 - 2012	Y1670S7 Y1700S7G Y1770S7 Y1770S7 Y1770S7 Y1770S7 Y1820S7G Y1860S7 Y1860S7 Y1860S7 Y1860S7 Y1860S7 Y1860S7 Y1860S7 Y1860S7	15.2 18.00 - C 9.3 11 12.5 15.7 15.20 - C 8 9.3 9.6 11.3 12.5 12.9 15.2 15.7	≥ 3%	-	139 223 52 70 93 150 165 38 52 55 75 93 100 139 150	1,086 1,742 406.1 546.7 726.3 1,172 1,289 296.8 406.1 429.6 585.8 726.3 781 1,086 1,172	± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18 14-18 14-18 14-18 14-18 14-18 14-18 14-18 14-18 14-18 14-18	232-267 379-436 92- 106 124-143 165- 190 266-306 300-345 70.7-81.3 96.7-111 102-117 140-161 173-199 186-214 259-298 279-321	204 334 81 109 145 234 264 62.2 85.1 89.8 123 152 164 228 246	-	-	1.05-1.17	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	80% Fma 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	195	$2x10^6$ cycle of 80% Fma Stress range 200 MPa for plain 180 MPa for indented
GB/T 5224 - 2014	1720 1720 1720	9.50 (9.53) 12.70 15.20 (15.24)	≥ 2.5%	0.30/-0.15 0.40/-0.15 0.40/-0.15	54.8 98.7 140.0	430.0 775.0 1,101.0	-	12-16 12-16 12-16	94.3-105 170-190 241-269	-	83 150 212	-	-	-	3.5 3.5 3.5	-	≤ 25 mm of 1 m.	70% Fma 3.5 3.5 3.5	195 ± 10	$2x10^6$ cycle of 70% Fma Stress range 190 MPa for plain 170 MPa for indented
	1770	15.70		0.40/-0.15	150.0	1,178.0	-	12-16	266-296	-	234	-	-	-	3.5	-		3.5		
	1860 1860 1860 1860	9.50 (9.53) 12.70 15.20 (15.24) 15.70		0.30/-0.15 0.40/-0.15 0.40/-0.15 0.40/-0.15	54.8 98.7 140.0 150.0	430.0 775.0 1,101.0 1,178.0	-	12-16 12-16 12-16 12-16	102-113 184-203 260-288 279-309	-	89.8 162 229 246	-	-	-	3.5 3.5 3.5 3.5	-		3.5 3.5 3.5 3.5		
	1860 1860	12.70 - Indent 15.20(15.24) - Indent		0.40/-0.15 0.40/-0.15	98.7 140.0	775.0 1,101.0	-	12-16 12-16	184-203 260-288	-	162 229	-	-	-	3.5 3.5	-		3.5 3.5		
	1820	15.20(15.24) Compacted		0.40/-0.15	165.0	1,295.0	-	14-18	300-333	-	264	-	-	-	3.5	-		3.5		
	1860	12.70 - Compacted		0.40/-0.15	112.0	890.0	-	14-18	208-231	-	183	-	-	-	3.5	-		3.5		

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Standard		Nominal Diameter	Differance Center & Outer	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Stress Ratio	Reduction of area	Minimum Elongation	Minimum Elongation at maximum force (Agt)	Straightness	1,000-HR. Relaxation (% MAX.)	MOE	Fatigue
										kN										
	GRADE Mpa	mm		mm	mm²	kg./1000 m.	%		kN	0.10%	0.20%	at 1.0% extension		%	%	%		Fm = Maximum force of specification Fma = Maximum force of actual	Gpa or kN/mm2	
prEN 10138-2004 & DIBt (GERMANY)	Y1770S7	9.3 12.5 15.3 15.7	≥ 1.03	-	52 ± 2% 93 ± 2% 140 ± 2% 150 ± 2%	406.1 726.3 1093 1172	± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18	92.0-106 165-190 248-285 266-306	79.1 142 213 229	-	-	-	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	70% Fma 2.0 2.0 2.0 2.0	195	According to DIBt abZ aBG Z -12.3-153-12.3-152
	Y1860S7	9.3 12.5 15.3 15.7		-	52 ± 2% 93 ± 2% 140 ± 2% 150 ± 2%	406.1 726.3 1093 1172	± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18	96.7-111 173-199 260-299 279	83.2 149 224 321	-	-	-		-	3.5 3.5 3.5 3.5		2.0 2.0 2.0 2.0		
prEN 10138-2006	Y1770S7	9.3 11 12.5 12.9 15.2 15.7	≥ 3%	-	52 70 93 100 139 150	406.1 546.7 726.3 781 1,086 1,172	± 2 ± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18 14-18	92.0-109 124-143 165 -195 177-209 246-290 266-314	81 109 145 156 216 234	-	-	0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	70% Fma 2.5 2.5 2.5 2.5 2.5 2.5	195	Class F1 2x10⁶ cycle of 70% Fma Stress range 190 MPa for plain 170 MPa for indented Class F2 2x10⁶ cycle of 70% Fma Stress range 200 MPa for plain 180 MPa for indented
	Y1860S7	9.3 9.6 11.3 12.5 12.9 15.2 15.7	≥ 3%	-	52 55 75 93 100 139 150	406.1 429.6 585.8 726.3 781 1,086 1,172	± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18 14-18 14-18	96.7-114 102-120 140-165 173-204 186-220 259-306 279-329	85.1 89.8 123 152 164 228 246	-	-	0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95		-	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		
	Y1860S7G Y1860S7G Y1820S7G Y1700S7G	12.70 - C 15.20 - C 15.20 - C 18.00 - C	- - - -	-	112 165 165 223	874.7 1,289 1,289 1,742	± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18	208-245 307-362 300-354 379-447	183 270 264 334	-	-	0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95		-	3.5 3.5 3.5 3.5		2.5 2.5 2.5 2.5		
FprEN 10138-2009	Y1770S7	9.3 11 12.5 12.9 15.2 15.7	≥ 3%	-	52 70 93 100 139 150	406.1 546.7 726.3 781 1,086 1,172	± 2 ± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18 14-18	92.0-106 124-143 165-190 177-204 246-283 266-306	81 109 145 156 216 234	-	-	0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	70% Fma 2.5 2.5 2.5 2.5 2.5	195	Class F1 2x10⁶ cycle of 70% Fma Stress range 190 MPa for plain 170 MPa for indented Class F2 2x10⁶ cycle of 70% Fma Stress range 200 MPa for plain 180 MPa for indented
	Y1860S7	9.3 9.6 11.3 12.5 12.9 15.2 15.7	≥ 3%	-	52 55 75 93 100 139 150	406.1 429.6 585.8 726.3 781 1,086 1,172	± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18 14-18 14-18	96.7-111 102-117 140-161 173-199 186-214 259-298 279-321	85.1 89.8 123 152 164 228 246	-	-	0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95		-	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		
	Y1960S7	15.7	≥ 3%	-	150	1,172	± 2	14-18	294-338	262	-	-	0.85-0.95		-	3.5		2.5		
	Y1860S7G Y1860S7G Y1820S7G Y1700S7G	12.7 - C 15.2 - C 15.2 - C 18.0 - C	≥ 3%	-	112 165 165 223	874.7 1,289 1,289 1,742	± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18	208-239 307-353 300-345 379-436	183 270 264 334	-	-	0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95		-	3.5 3.5 3.5 3.5		2.5 2.5 2.5 2.5		

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Standard		Nominal Diameter	Difference Center & Outer	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Stress Ratio	Reduction of area	Minimum Elongation	Minimum Elongation at maximum force (Agt)	Straightness	1,000-HR. Relaxation (% MAX.)	MOE	Fatigue
										kN										
	GRADE Mpa	mm		mm	mm²	kg./1000 m.	%		kN	0.10%	0.20%	at 1.0% extension		%	%	%		Fm = Maximum force of specification Fma = Maximum force of actual	Gpa or kN/mm2	
prEN 10138-2012	Y1770S7	9.3 11 12.5 12.9 15.2 15.7	≥ 3%	-	52 70 93 100 139 150	406.1 546.7 726.3 781 1,086.0 1,172.0	± 2 ± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18 14-18	92-106 124-143 165-190 177-204 246-283 266-306	81 109 145 156 216 234	-	-	1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	70% Fma 2.5 2.5 2.5 2.5 2.5 2.5	195	Class F1 2x10⁶ cycle of 70% Fma Stress range 190 MPa for plain 170 MPa for indented
	Y1860S7	9.3 9.6 11.3 12.5 12.9 15.2 15.7	≥ 3%	-	52 55 75 93 100 139 150	406.1 429.6 585.8 726.3 781 1,086 1,172	± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18 14-18 14-18	96.7-111 102-117 140-161 173-199 186-214 259-298 279-321	85.1 89.8 123 152 164 228 246	-	-	1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18		-	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		Class F2 2x10⁶ cycle of 70% Fma Stress range 200 MPa for plain 180 MPa for indented
	Y1960S7	15.7	≥ 3%	-	150	1,172	± 2	14-18	294-338	262	-	-	1.05-1.18		-	3.5		2.5		
	Y1860S7G Y1860S7G Y1820S7G Y1700S7G	12.70 - C 15.20 - C 15.20 - C 18.00 - C	-	-	112 165 165 223	874.7 1,289 1,289 1,742	± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18	208-239 307-353 300-345 379-436	183 270 264 334	-	-	1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18		-	3.5 3.5 3.5 3.5		2.5 2.5 2.5 2.5 2.5		
JIS G 3536-2014	SWPR7AL 1720	9.3 10.8 12.4 15.2	≥ 0.08 mm	+0.4/-0.2 +0.4/-0.2 +0.4/-0.2 +0.4/-0.2	51.61 69.68 92.9 138.7	405 546 729 1,101	-	12-18 12-18 12-18 12-18	88.8 120 160 240	-	75.5 102 136 204	-	-	-	3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	70% Fm 2.5 2.5 2.5	-	-
	SWPR7BL 1860	9.5 11.1 12.7 15.2		+0.4/-0.2 +0.4/-0.2 +0.4/-0.2 +0.4/-0.2	54.84 74.19 98.71 138.7	432 580 774 1,101		12-18 12-18 12-18 12-18	102 138 183 261		86.8 118 156 222				3.5 3.5 3.5 3.5			2.5 2.5 2.5 2.5		
LNEC E 453-2020	1860 1860 1860 1860 1860 1860	9.3 12.5 13.0 15.2 15.3 15.7	1.02-1.05	-	52 93 102 139 140 150	406.1 726.3 796.6 1,086 1,093 1,172	± 2 ± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18 14-18	96.7-111 173-199 190-219 259-298 260-299 279-321	85.1 152 167 228 229 246	-	-	0.85-1.05	-	-	3.5 3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	70% Fma 2.5 2.5 2.5 2.5 2.5	190-210	2x10⁶ cycle of 70% Fma Stress range 190 MPa for plain 170 MPa for indented
NF A35 - 045 - 3	1860 1860 1860 1860 1860	9.3 12.5 12.9 15.2 15.7	≥ 1.03	-	52.0 93.0 100 139 150	406.1 726.3 781 1086 1172	± 2 ± 2 ± 2 ± 2 ± 2	(mm) 130-167 175-225 181-232 213-274 220-283	96.7 173 186 259 279	86.1 154 166 231 248	-	-	-	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5	≤ 25 mm	80% Fma 4.5 4.5 4.5 4.5	195	2x10⁶ cycle of 70% Fma Stress range 190 MPa for plain 170 MPa for indented
MS 1138 - 4 2020	1860 1860 1860 1860 1770 1860 1820	9.5 12.7 12.9 15.2 15.7 15.7 15.20 - C	≥ 2% ≥ 2% ≥ 2% ≥ 2% ≥ 2% ≥ 2% -	-	54.8 98.7 100 139 150 150 165	432 774 785 1,101 1,180 1,180 1,295	+4/-2 +4/-2 +4/-2 +4/-2 +4/-2 +4/-2 +4/-2	12-18 12-18 12-18 12-18 12-18 12-18 14-18	102 184 186 259 265 279 300	83.6 151 153 212 217 246 255	86.6 156 158 220 225 251 264	-	-	-	-	3.5 3.5 3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	80% Fm 4.5 4.5 4.5 4.5 4.5 4.5	-	2x10⁶ cycle of 70% Fm Stress range 195 MPa for all product

THE SIAM INDUSTRIAL WIRE CO., LTD.
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มอก 420 - 2540 | ASQPE N° SIW(R)-19 | CARES 091001 | UKAS 0002 | DCL PRODUCT CONFORMITY ASTM A416/A416M License No. CL08020080 | Certif PSG-019/2022 | ACRS 71201 | MS 1138:PART 4 : 2007 PC001581 SIRIM | JIS TCTH08004 | FI No. 10056 | D.M. 17/01/2018 Norme tecniche per le costruzioni classe 1670/1860 Mpa Attestato di Qualificazione n. 005/25-CAP | BENOR 322 NBN I 10-003 | 20 | K100130 | IS 14268-2022 CM/L-4100087481

Standard		Nominal Diameter	Differance Center & Outer	Diameter Tolerance	Nominal Area	Unit Weight	Weight Tolerance	Pitch	Minimum Breaking Load	Minimum Yield Load			Stress Ratio	Reduction of area	Minimum Elongation	Minimum Elongation at maximum force (Agt)	Straightness	1,000-HR. Relaxation (% MAX.)	MOE	Fatigue
	GRADE Mpa	mm		mm	mm²	kg./1000 m.	%		kN	kN 0.10%	kN 0.20%	kN at 1.0% extension		%	%	%		Fm = Maximum force of specification Fma = Maximum force of actual	Gpa or kN/mm2	
IS 14268-2022	1860	9.3 9.6 11.0 12.5 12.7-C 12.9 13.0 15.2 15.7	-	-	52 55 70 93 112 100 102 139 150	406.1 429.6 546.7 726.3 874.7 781 796.6 1086 1172	± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2	12-16 12-16 12-16 12-16 12-16 12-16 12-16 12-16 12-16	96.7 102 130 173 208 186 190 259 279	-	85.1 89.8 114 152 183 164 167 228 246	-	-	-	3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	-	≤ 25 mm of 1 m.	70% Fm ≤2.5%, ≤1.8% at 100hors 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	-	-
	1770	18.0-P	-	-	223	1742	± 2	12-16	379	-	334	-	-	-	3.5	-		2.5		
ABNT NBR 7483-2020	RB 190 (1860)	9.5 12.7 15.2	≥ 3.0%	+0.4/ -0.2 +0.4/ -0.2 +0.4/ -0.2	54.9-57.3 96.6-102.9 139.9-145.3	441 792 1125	-	14-18 14-18 14-18	102.3 183.7 260.7	-	-	92.1 165.3 234.6	-	-	3.5 3.5 3.5	-	≤ 25 mm of 1 m.	80% Fm 3.5 3.5 3.5	200	-
UNE 36094 - 1997	Y1860 S7 Y1860 S7 Y1860 S7 Y1770 S7 Y1860 S7	9.3 13.0 15.2 16.0 16.0	2-5%	-	50.96-53.04 98-102 137.2-142.8 147-153 147-153	408 785 1101 1176 1176	± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18	96.7-113 186-218 260-304 265-310 279-326	82.2 158 221 225 237	85.1 164 229 233 246	-	-	-	-	3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	80% Fma 4.5 4.5 4.5 4.5 4.5	195 ± 7%	2x10⁶ cycle of 70% Fm Stress range 190 MPa for all product
SFS 1265 - 3	1860 1860 1860 1860 1860	9.3 12.5 12.9 15.2 15.7	≥ 3%	-	52 93 100 139 150	406.1 726.3 781 1086 1172	± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18	96.7-111 173-199 186-214 259-298 279-321	85.1 152 164 228 246	-	-	1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	70% Fma 2.5 2.5 2.5 2.5 2.5	195	Class F1 2x10⁶ cycle of 70% Fma Stress range 190 MPa for plain 170 MPa for indented
SS 212553 - 2013	1860 1860 1860 1860 1860	9.3 12.5 12.9 15.2 15.7	≥ 3%	-	52 93 100 139 150	406.1 726.3 781 1086 1172	± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18	96.7-111 173-199 186-214 259-298 279-321	85.1 152 164 228 246	-	-	1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18 1.05-1.18	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	70% Fma 2.5 2.5 2.5 2.5 2.5	195	Class F2 2x10⁶ cycle of 70% Fma Stress range 200 MPa for plain 180 MPa for indented
NEN 3868 : 2001	1860 1860 1860 1860 1860	9.3 12.5 12.9 15.2 15.7	1.03 - 1.05	-	52 93 100 139 150	398-414 712-741 765-797 1064-1108 1148-1195	-	130-167 175-225 181-232 213-274 220-283	96.7-112 173-199 186-214 259-298 279-321	85.1 152 164 228 246	-	-	0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	80% Fma 4.5 4.5 4.5 4.5 4.5	185-205	2x10⁶ cycle of 80% Fma Stress range 200 MPa
UNI 7676-2016	1860 1860 1860 1860 1860	9.3 12.5 12.9 15.2 15.7	≥ 1.03%	-	52 93 100 139 150	406.1 726.3 781 1086 1172	± 2 ± 2 ± 2 ± 2 ± 2	14-18 14-18 14-18 14-18 14-18	96.7 173 186 259 279	85.1 152 164 228 246	- - - - -	86.9 156 167 233 251	0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95 0.85-0.95	≥25%, plain ≥20%, indent	-	3.5 3.5 3.5 3.5 3.5	≤ 25 mm of 1 m.	70% Fma 2.5 2.5 2.5 2.5	185-205	2x10⁶ cycle of 80% Fma Stress range 200 MPa for plain 180 MPa for indented