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1. Product description

Pc strand is stranding by pre-stressing process using wires produced by cold drawing. While large gaps on structures are economically dealt with Prestressed Concrete Strand, at the same time, large areas can be gained as well with the reduction of concrete cross-section. Also the deformations occurring in the prefabricate systems exposed to dynamic loads can be improved with the drawability feature of the steel.

Bridge / Viaduct beams, Prefabricated Industrial structures, T beams, Concrete pipes and silos, Anchorage and Ground improvement are also used.

2. Normative references

- ABNT NBR 7483 Steel wire strands for prestressed concrete structure - Specification

3. Mechanical Properties

Category RB 210

Diameter	Nominal diameter tolerance	Min. Cross-sectional area	Nominal Cross-sectional area	Max. Cross-sectional area	Mass per metre	Minimum breaking load,	Value of 0.1% proof force	Minimum total elongation after break	Maximum relaxation after 1000 hours
mm	mm	mm ²	mm ²	mm ²	g/m	kN	kN	%	%
9,50	-0,2 / 0,4	54,9	56,2	57,3	441	113,1	101,8	Min. 3,5 %	Max. 3,5 %
12,70	-0,2 / 0,4	98,6	100,9	102,9	792	203,1	182,8	Min. 3,5 %	Max. 3,5 %
15,20	-0,2 / 0,4	139,9	143,4	146,3	1126	288,2	259,4	Min. 3,5 %	Max. 3,5 %

4. Chemical Properties

The chemical properties of the supplied raw materials according to ISO 16120-4 are given in the table.

	(C %)	(Si %)	(Mn %)	(P %)	(S %)	(Cr %)
C82D2	0,80-0,84	0,10-0,30	0,50-0,70	max 0,020	max 0,025	max 0,10
C86D2	0,84-0,88	0,10-0,30	0,50-0,70	max 0,020	max 0,025	max 0,10

5. Inspection Document

Inspection document 3.1 – EN 10204 on request.

6. Packaging Forms

Package Specification	Coil Size
Inner Diameter (ID) (mm)	800 or 900
Traverse (mm)	750
Weight (kg)	2500-4000
Lay Direction	S or Z