

**TECHNICAL DATASHEET**
**1. PRODUCT NAME:**

➤ Indented Wire for Pre-Stressed Concrete.

**2. APPLICATION/ USE OF THE PRODUCT:**

➤ Indented Wire for Pre Stressed Concrete for Use in cemented poles.

**3. ASSOCIATED DOCUMENTS / STANDARDS (IF APPLICABLE):**

➤ As per IS 6003:2010, and Customer Specifications.

**4. TECHNICAL SPECIFICATION :**
**4.1. CHEMICAL COMPOSITION:**

Element	Carbon	Manganese	Phosphorus	Sulfur	Silicon
%			Max. 0.040	Max. 0.040	

**4.2. MATERIAL PROPERTIES:**
**4.2.1 As per IS 6003:2010**

*Nominal wire diameter	*Diameter Tolerance	*Tensile Strength	*Elongation (GL=200mm)	Nominal Mass(g/m)	Radius of jaws for reverse Bend test	Proof Stress	Relaxation Test	Reverse Bend-Clause 8.5 of IS6003:2010
(mm)	(mm)	(Mpa)	(%)	(g/m)	(mm)	(Mpa)	(%Loss in applied load after completion of Test)	
		Minimum				Minimum	Maximum	
Reference Standard	IS 6003:2010	IS 6003:2010	IS 6003:2010	IS 6003:2010	IS 6003:2010	IS 6003:2010	IS 6003:2010	IS 6003:2010
<b>2.50</b>	+/-0.05	2010	2.50	38.5+/-1.25	7.50	85% of its Min. specified tensile strength	3.50% for100 hours and 5.0% for 1000hours	The wire shall withstand three reverse bends without fracture
<b>3.00</b>	+/-0.05	1865	2.50	55.5+/-1.5	10.0	85% of its Min. specified tensile strength	3.50% for100 hours and 5.0% for 1000hours	The wire shall withstand three reverse bends without fracture
<b>4.00</b>	+/-0.05	1715	3.00	98.9+/-2.0	12.5	85% of its Min. specified tensile strength	3.50% for100 hours and 5.0% for 1000hours	The wire shall withstand three reverse bends without fracture
<b>5.00</b>	+/-0.05	1570	4.00	154+/-3.1	15.0	85% of its Min. specified tensile strength	3.50% for100 hours and 5.0% for 1000hours	The wire shall withstand three reverse bends without fracture
<b>7.00</b>	+/-0.05	1470	4.00	302+/-4.3	20.0	85% of its Min. specified tensile strength	3.50% for100 hours and 5.0% for 1000hours	The wire shall withstand three reverse bends without fracture
<b>8.00</b>	+/-0.05	1375	4.00	395+/-5.9	25.0	85% of its Min. specified tensile strength	3.50% for100 hours and 5.0% for 1000hours	The wire shall withstand three reverse bends without fracture

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- The Shape and pattern of indentation shall be Elliptical. The indentations are placed in two lines, diametrically opposite and opposite indentations are staggered so that no two indentations are exactly opposite.
- The Pitch and depth of indentation shall be uniform throughout the length of the wire.

**5. MATERIAL QUALITY AND FINISH :**

- The wire shall be manufactured according to material properties in clause 4.
- The wire surface shall be smooth and free from rust, scale & any other contaminants.

**6. QUALITY CONTROL / QUALITY ASSURANCE:**

- Test certificate with each lot as per IS 6003:2010
- Characteristics covered in Test Certificate
- The Sampling plan is in accordance with Purchaser.

**7. PACKAGING AND DELIVERY:**

- The Indented wire for pre-stressed concrete shall be in coil form.
- The bundles shall be wrapped with stretch film & HDPE roll.

**8. COIL IDENTIFICATION:**

**Each bundle shall be clearly labeled as per the following.**

- Manufacturer Name
- Product Name
- Coil No
- Diameter in mm
- Lot No.
- Gross Wt. / Net Wt. (kg)
- Date of manufacturing
- Purchase Order Number