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**SPECIFICATION FOR STAINLESS STEEL WIRE**  
**0.381 MM DIA**

- 1. **NOMENCLATURE:** Stainless Steel Wire.
- 2. **USE:** To be used in as braided on carbon Tape.
- 3. **RELEVANT SPECN:** MSCQ-5, IS. 6528
- 4. **PHYSICAL CONDITION:** Stainless Steel Wire coiled on reel.
- 5. **PHYSICAL & MECHANICAL PROPERTIES:**

The Stainless Steel Wire will be tested for the following parameters.

- (a) Diameter 0.381 ± .010 mm
- (b) Tensile strength Not less than 210.9 Kgs/mm<sup>2</sup>
- (c) Torsion test Not less than 5 turns at 38 mm
- (d) Conductivity Not less than 1.5 %
- (e) Permeability Not more than 20

6. **CHEMICAL COMPOSITION :**

The stainless steel wire will be analyzed for the following parameters:-

- (a) Carbon (C) Not More than 0.10%
- (b) Silicon (Si) Not more than 1.00%
- (c) Manganese (Mn) Not more than 2.00%
- (d) Phosphorous (P) Not more than 0.04%
- (e) Sulphur (S) Not more than 0.03%
- (f) Nickel (Ni) 8.00 – 11.00%
- (g) Chromium (Cr) 17.00 – 20.00%

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**PACKING:**

Stainless steel wire is coated on reel which is 200 mm in flange dia, 130mm in barrel dia, 130 mm in transverse, 15mm flange thickness and 30mm bore dia.

Net weight of each reel is not less than 2 Kg.

**Note:** The supplier shall supply H curve (viz a plot permeability against intensity of magnetization for values of H upto 300 oersted in respect of each consignment. Measurements may be carried out at 10, 20, 30, 40, 50, 75, 100, 200 and 300 oersteds.

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