



Integration to Perfection

Tamra Transformer Conductor




TAMRA™

ABOUT US

'Tamra', an organization of dedication and conviction by a team of competent professionals has touched new height by virtue of sheer determination and grit to excel in Transformer conductor arena. 'Tamra' has leveraged updated



technology with commitment to match precise need of precious Transformer manufacturers.

The inherent strength of the company emanates from robust Infrastructure coupled with strong financial health.

Tamra Transformer Conductor is produced in every conceivable ambience (Moisture controlled Dust free) to churn out flawless and better than best Copper & Aluminium conductor; with varieties of Insulation in comprehensive-spread from Kraft Paper to Glass Insulation and from single conductor to bunched to meet up exact requirement.



INFRASTRUCTURE

- UPCAST – OFC Copper Wire Rod
- Continuous Rotary Extrusions – Strips
- 16 Layer Paper Covering
- 32 Layer Paper Covering – MPC
- Triple / Quadruple Bunching
- Fibre Glass Insulation

INTEGRATION

OFC Copper Rod

Tamra Oxygen Free Copper Wire Rod with less than 5ppm generates highest purity Copper, embracing Vertical Upward Continuous Cast process. Exclusive usage of LME Grade A copper cathode and rigid process control helps Tamra to deliver a product which is a class apart. Tamra has successfully nurtured a rare capability to produce Silver Bearing Copper.





Bare Conductor

Rectangular: The continuous radial extrusion Conform process results into clean, deburred, smooth, round edged conductor's soft conductor. Extrusions of both Copper & Aluminium are processed through superior Conform technology to deliver best material.

Round: A scratch free annealed Copper / Aluminium wire are produced using the best European technology ensures Tamra to produce joint-less conductors of highest quality.



Tamra Transformer Conductor

With a seamless bare conductor and with efficient insulating production line in a dust-free moisture controlled atmosphere helps Tamra to guarantee a product, which excels global standards.

The meticulous insulation line encompasses the gamut of transformer's conductor like Kraft Paper, Crape Paper, Nomex, Mica, Polyster, Double glass and the variant of various insulation material required by the industry to meet varied applications.

Quality

Tamra is destined for ultimate success thru Quality Assurance right from Raw Materials to finished product passing through rigid quality checks of various electrical and mechanical parameters.

Tamra guarantees the super quality product through the stringent quality measures carried internally through its state-of-the-art lab, a few of which includes :

Oxygen analyser | Spectrometer | Profile Projector
Digital Conductivity Meter | Hardness Tester
Di-electric Meter

TECHNICAL DETAIL OF PAPER TAPE COVERED WIRE



Products	Types of Insulation	Range of Manufacture	Insulation Build Grade	Specification
Paper Covered/ Lapped Wire	Multi Lapped Manila/ Kraft Paper or Crepe Covering Butt Lap, Half lap wound and Multi layers	6.4 to 0.50 mm	0.05 to 0.125 mm Kraft Paper thickness or as required	IS: 7404 Pt-1 BS: 4653: Pt-2 BS: 6011 Section 8,1 IEC: 317-27
Paper Covered/ Lapped Strips	Multi Lapped Manila/ Kraft Paper or Crepe Covering Butt Lap, Half lap wound and Multi layers	upto 100 Sq. mm	0.05 to 0.125 mm Kraft Paper thickness or as required	IS: 7404 Pt-2 BS: 4653 Pt-2 IEC: 317-27
Nomex (Meta Armaide paper) Covered/Lapped Wires	Aromatic Polyamide Fiber Based Paper Covering Butt Lap, half Lap, Multi layer	6.4 to 0.50 mm	0.05 to 0.125 mm	IS: 11174 BS: 4653 Pt-2 IEC: 851
Nomex (Meta Armaide paper) Covered/Lapped strip	Aromatic Polyamide Fiber Based Paper Covering Butt Lap, half Lap, Multi layer	upto 100 Sq. mm	0.05 to 0.125 mm	IS: 11174 BS: 4653 Pt-2 IEC: 851
Mica Composite covered/lapped strips	Resin-Rich Mica Paper Glass Fabric or Polyester Film Composite. Single or Multi tape construction overlap or Butt wound	upto 100 Sq. mm	Tape Thickness 0.10 to 0.33	To Customers Specification
Kapton Covered Sintered Wire	Polyamide film with Fluorinated Ethylene Propylene Bonding Covering Single or Double Tapes, over lap or Butt wound	0.91 to 60 mm	Film Thickness 37 microns 62 microns 75 microns	To Customers Specifications IEC: 851 To Customers Specifications IS: 9148
Kapton Covered Sintered Strip	Polyamide film with Fluorinated Ethylene Propylene Bonding covering ... lap,1/2 lap, 2/3 lap	Upto 60 Sq. mm	Film Thickness 37 microns 62 microns 75 microns	IEC: 851 IS: 4605 BS: 1933 Pt-1 IEC: 317-31/32/33 IS: 10114/13730-0-4
Glass fibre yarn Covered / lapped varnish/Resin Bonded Wire	Insulation One/Two layer Glass Fiber Yarn Combination Enamelled	0.30 to 6.4 mm	1st layer 0.1 to 0.18 mm 2nd layer 0.19 to 0.43 mm + combinations of insulation	IEC: 317-31/32/33
Glass fibre yarn/ Covered / lapped varnish / Resin Bonded Strips	Insulation: One/Two layer Glass Fibre Yarn.Combination: Enamelled, Polyester Film, Nomex Paper	Upto 60 Sq. mm	Layer 1, 0.10 to 0.18 mm, Layer 2, 0.19 to 0.43 mm + combinations of insulation	



Insulation Type	Thermal Class	Standard	Applications
Kraft	150°C	IEC 60317-27	Oil-Filled Transformers
Nomex	220°C	IEC 60317-52 & 53	Dry-Type & Oil Filled Transformers
Polyester Film	155°C	Acc. Customer Spec.	Special Transformers (Gas Transformers)
Kapton (Polyimide Paper)	240°C	IEC 60317-43 & 44	Traction Motors
Mica	155°C	Acc. Customer Spec.	High Voltage Motors - Generators



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Rajasthan - 301 707 (India)

WEST INDIA

101 Meadows, Sahar Plaza
Andheri Kurla Road
Andheri (East)
Mumbai - 400 059 (India)

SOUTH INDIA

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OVERSEAS

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