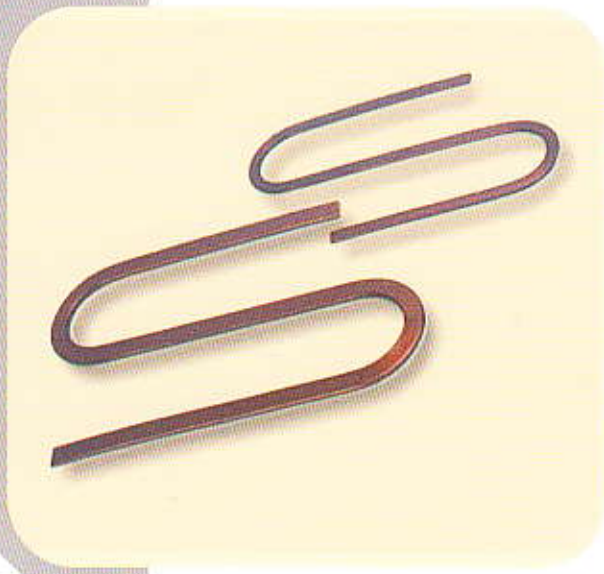
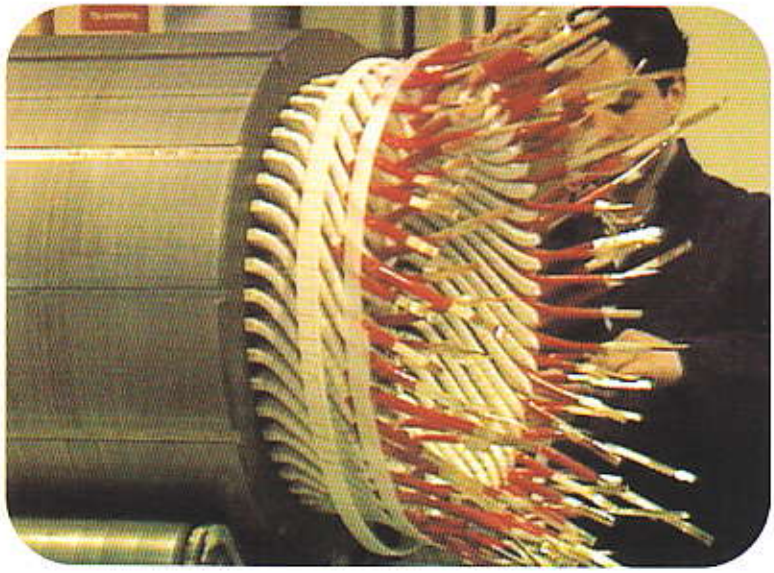
PRODUCT INFORMATION DATA SHEET

Enamelled Rectangular Copper Magnet Winding Wire

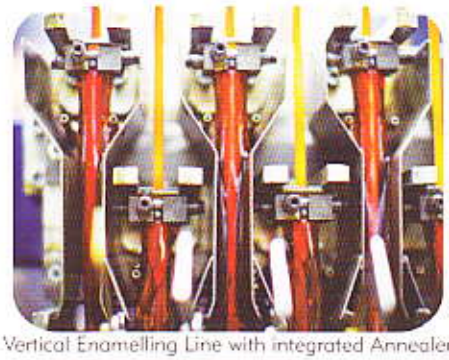




Typical Applications

- Electric Motors & Generators
- Transformers
- AC Coils
- DC Coils
- Wind Mill Generators

Specialist in Covered Conductors



Vertical Enamelling Line with integrated Annealer

Reference Specifications

- IEC, DIN, IS, other relevant National/International/Customized standards

Insulation Options

- Polyvinyl Acetal Enamel (120°C)
- Polyester Enamel (Class F - 155 °C)
- Polyesterimide (Class H - 180 °C)
- Dual Coated Polyester (imide)+Polyamideimide (Overcoat)(Class C-200 °C)

Enamel Increase in Dimensions

- Grade 1: Maximum 0.11 mm
- Grade 2: Maximum 0.16 mm

Size Range		
	Minimum	Maximum
Thickness	0.8 mm (0.032 in)	5 mm (0.200 in)
Width	4 mm (0.158 in)	15 mm (0.590 in)
Cross Sectional Area	3.2 mm^2	80 mm^2

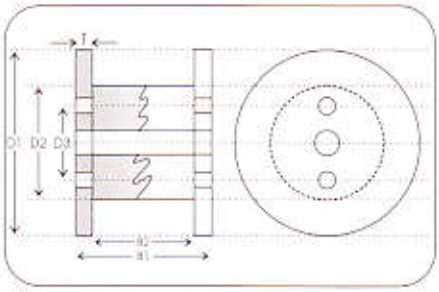
Technical Data			
Temperature Index	155	180	200
Characteristic of enamelled wire	For mechanical stress	For increased heat stress	For increased thermal & mechanical stress
Pencil Hardness (Solvent Resistance)	3H	3H	5H
Edgewise bend	3 x Width - OK	3 x Width - OK	3 x Width - OK
Breakdown Voltage at elevated temperature	75% at 155 °C	75% at 180 °C	75% at 200 °C
Heat shock of bent strip	4 x Width at 180 °C	4 x Width at 200 °C	4 x Width at 220 °C

Nominal Cross Sectional areas of preferred sizes

Width mm	Width in	Thickness mm	1.12	1.25	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.12	2.24	2.36	2.50	2.65	2.80	3.00	3.15	3.55	3.75	4.00	4.50	5.00	5.60
		in	0.044	0.049	0.055	0.059	0.063	0.067	0.071	0.075	0.079	0.084	0.088	0.093	0.099	0.104	0.110	0.118	0.124	0.140	0.148	0.158	0.177	0.197	0.221
mm	in																								
2.00	0.08																								
2.24	0.09																								
2.50	0.10																								
3.15	0.12																								
3.55	0.14																								
4.00	0.16																								
4.50	0.18																								
5.00	0.20																								
5.60	0.22																								
6.30	0.25																								
7.10	0.28																								
8.00	0.32																								
9.00	0.35																								
10.00	0.39																								
11.20	0.44																								
11.80	0.46					-		-		-		-		-		-		-			-				
12.50	0.49																								
13.20	0.52							-		-		-		-		-		-			-				
14.00	0.55																								
15.00	0.59											-		-		-		-			-				
16.00	0.63																								
18.00	0.71																								
20.00	0.79																								
			R = 0.5 mm (0.0197 in)					R = 0.65 mm (0.0256 in)							R = 0.80 mm (0.0315 in)						R = 1.0 mm (0.0394 in)				

[1] Figure from R 40 Series [1] Figure from R 20 Series [-] Dimensions Not Recommended

Packaging Details



No.	Flange Dia. D1(mm)	Traverse width B2 (mm)	Barrel Dia. D2(mm)	Flange Thickness T (mm)	Overall Width B1 (mm)	Bore Dia. D3(mm)	Capacity in Kgs
1	355±5	200±3	300±5	28±4	200	40	50
2	450±5	200±3	300±5	28±4	267	40	70
3	560±5	220±3	400±5	28±4	289	40	100
4	710±5	240±3	460±5	38±4	322	40	250

*Drum sizes shown are as per standard. Other sizes as per requirement can be provided

Test Requirements : • Mechanical Properties • Electrical Properties • Thermal Properties • Chemical Properties

KSH®

KSH INTERNATIONAL PRIVATE LIMITED

Head Office : Chakan - Ambethan Road, Chakan, Pune - 410 501, INDIA
Tel : +91-2135-256410 / +91-2135-256412 Fax : +91-2135-256411
Email : info@kshinternational.com Web : www.kshinternational.com

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