



WINDING WIRES
ISO 9001:2015
JAMMU

INDIA'S MOST TRUSTED
**ALUMINIUM & COPPER
WINDING WIRES**



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Alliance Copper

offers clients a full range
of Enamelled Aluminium
& Copper wire tailored to
their specific needs.





Company Profile



Alliance Copper Concepts Pvt. Ltd. (An ISO 9001:2015 Co) is an association of vast experience accompanied by young zeal & enthusiasm. Our organization is very well equipped to deliver its customers the best quality products at the most reasonable prices, being our works situated at one of the most economically strategic locations of India, Jammu. We manufacture ACC Enamelled Winding Wires made of C.C. Copper, range between 8-SWG to 40-SWG. These wires are insulated with variety of Wire Enamels, like Polyester, Modified Polyester, Polyesterimide (Hermetic) and Dual Coat (Lmide-Amide).



VMI GROUP engaged in the Copper & Aluminium Enamelled Wire, Plastics Jars and Mineral Bottles industry since last 35 years . We are having our units at Jammu, Manesar and Bhiwadi. VMI Group, having a team of highly experienced professionals. VMI Group has spread its wings in diverse direction which include Copper Rods, Copper Wire, Winding Wires, Copper Strips & Flats, Super Enamelled Wire and Polycarbonate Sheet, Multiwall Polycarbonate Sheet and Multicell Panel Sheet etc.



VMI INSULATION (AN ISO 9001:2015 Certified Co.) to meet customer deadlines, we have created an agile production facility for drawing, shaping, serving, twisting and insulating wire for high-technology users worldwide. Short production runs and quick turnarounds are our specialities. Much of our production equipment is made exclusively to serve its customers' speciality wire needs which includes Aluminium Rods, Wires, Strips, Foils, Flats and Insulated conductors of Enamel / Fibre Glass / Paper, Confirming to National and International Standards.



Vidya Metal Mfg. Co. Pvt. Ltd. (An ISO 9001:2015 Co.) a group company has established a unit at Bhiwadi (Haryana) to manufacture Electrolytic Copper Rods & Strips, Busbar & Profiles with latest imported plant & technology to produce International standard products confirming to BIS / IEC Standards. We are fully equipped with in house laboratory and quality parameters are tested on line as well as off line for each batch of products.



VMI Plastics Pvt. Ltd. entered into the field of manufacturing Polycarbonate bottles in year 2000. Presently we are supplying bottle to The Hindustan Coca-Cola and other reputed mineral water bottle manufacturers. In the year 2004 we entered into manufacturing of Polycarbonate sheet under the brand name "SUNLITE Polycarbonate Sheet". The manufacturing and technical center is located in Manesar (Haryana).

ACC Manufacturing setup at Jammu



Enamel Base	Polyester	Modified Polyester	Polyester Imide	Dual Coat (Lmide-Amide)
Temperature Index	130°	155°	180°	200°
Thermal Class	B	F	H	H+
Colour	Light Brown to Brown	Brown	Brown	Light Brown
Range	0.122mm to 4.0mm	0.122mm to 4.0mm	0.122mm to 4.0mm	0.5mm to 2.0mm
I.S. Specification	I.S. - 13730 PT-34	I.S. - 13730 PT-3	I.S. - 13730 PT-8	I.S. - 13730 PT-13
Cut Through	240°C	270°C	300°C	320°C
Heat Stock	155°C	175°C	200°C	220°C
Abrasion Resistance Flexibility Solvent Resistance	Good	Good	Very Good	Excellent
Application	All General Electric Equipment	General Purpose Rotating and Static Electrical Equipment	For FHP Motors, Hand Tool, Electromagnetic Coils	Special Motors including hermetic Motors, High speed winding machines
Special	Ideal for Rewinders	Balanced Electrical & Mechanical Properties Good for O.E.Ms	Higher Thermal Endurance Excels in Thermoplastic Flow, Abrasion & Heat Shock	Very High Thermal Property, Excellent for Hermetic Use



Product:

Enamelled / Magnet Copper Wire
Enamelled / Magnet Aluminium Wire

Product Range:

Minimum 0.15mm to maximum 4.0mm

Class of Insulation:

Polyester : Class 130
Modified Polyester : Class 155
Polyester Imide : Class 180
Dual Coat (Lmide-Amide) : Class 200

Packing Details:

Taper Spools : PT-4 to PT-90



Lab Testing Equipments

Conductor:

Conductor are drawn from electrolytic grade Copper manufactured by using best raw material directly purchased from manufacturers to ensure compliance with global standards.

Enamelling Process:

In Enamelling Copper Wire process, a wire coated with a thin layer of enamel insulation is applied on top of the drawn bare copper wire or any combination as per standards of customer requirements. It is ensured that enamel application is very scientific and every care is taken to give a concentric coat of properly baked coating.

During processing on the enamelling machine, the diameter of the conductor, its surface, size of covering etc. are checked at each stage.

The advantage of enamelled copper round winding wire: it takes up less space in coil formation, use less energy and is resistant to corrosion.

Standard Packing: On Plastic Spool.

Standard Length: As per customer requirements.



DELIVERY SPOOLS

ACC enamelled wires are supplied on spools, both cylindrical barrelled and taper barrelled as per customer requirement.

- 130mm
- 160mm
- 8" (200mm)
- 10" (250mm)
- 260mm
- 11" (266mm)
- 325mm
- PT-4
- PT-5
- PT-10
- PT-20
- PT-25
- PT-45
- PT-60
- PT-90





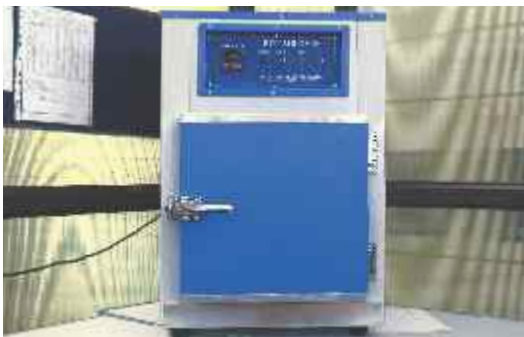
Inline Dimensional Tester

Automatic in line dimensional testing.



Inline Pin hole Tester

Automatic in line Insulation pinholes testing.



Hot Air Oven

Thermal Stability of Insulation testing



Cut through Tester

Thermoplasticity of Insulation testing.



3 Kv DC Pin hole Tester

Insulation Continuity Testing.



Tan Delta Tester

Temperature class of Insulation testing.



As an ANZ ISO 9001: 2015 certified company, you have the assurance of professionalism and expertise in the development and manufacture of the highest quality Enamelled Copper & Aluminum wires.

Alliance Copper are dedicated to quality, customer service and the continual improvement of our business. We are constantly reviewing our products and services and welcome your suggestions for improvement.

Our Mission

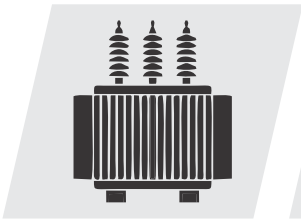
Our mission is to provide quality and excellent service to our customers professionally and exclusively. We strive for honesty and integrity in all our endeavors as we provide opportunities for growth and enrichment to our employees, our business partners and the communities in which we operate. We strive to be incessantly on the path of innovation for eco-friendly products and try to make less environmentally hazardous raw materials. We maintain high standards of technology by providing safe, reliable, and comfortable and value-for money products.

Safety Policy

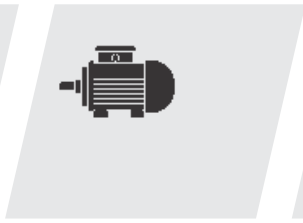
At Alliance Copper, we will provide a safe and healthy environment for associates around the world by working together to eliminate or control all conditions and behaviors that could lead to personal injury or occupational illness. Safety is the core value that leads our management performance. We are responsible for maintaining an outstanding safety level and providing the resources, education, training and tools needed to achieve our goal. We encourage all associates to take individual responsibility for themselves and to be role models of safety excellence for co-workers, families and communities.



APPLICATIONS



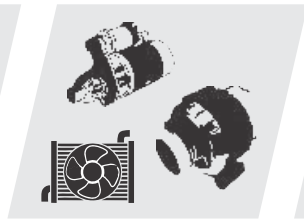
TRANSFORMERS



MOTORS



APPLIANCES



AUTOMOTIVE



SWITCHGEARS

SPECIFICATION TABLES

Size (SWG)	Size (mm)	Conductor Tolerance± (mm)	Resistance of 20°C (ohm/mtr)	Grade 1 Fine Covering		Grade 2 Medium		Grade 3 Thick		For Grade 2 Wire			Weight of Enamelled wire in 1000 mtrs. in kg	Size (SWG)
				Increase Dia- meter (min)	Over- all Dia- meter (max)	Increase Dia- meter (min)	Over- all Dia- meter (max)	Increase Dia- meter (min)	Overall Dia- meter (max)	Gain in %	BDV in KV (min)	Back in Degree (max)		
8	4.064	0.041	0.001318	0.060	4.152	0.088	4.186	0.122	4.265	35	2500	5	116.31	8
9	3.657	0.037	0.001641	0.059	3.743	0.086	3.775	0.118	3.8491	35	2500	5	94.228	9
10	3.251	0.033	0.00206	0.057	3.335	0.084	3.367	0.116	3.435	35	2500	5	74.54	10
11	2.946	0.030	0.002505	0.045	3.029	0.084	3.072	0.127	3.112	34	2500	5	61.241	11
12	2.642	0.027	0.003118	0.043	2.722	0.081	2.764	0.123	2.803	34	2500	5	49.304	12
12.5	2.489	0.025	0.003551	0.042	2.569	0.080	2.609	0.121	2.653	34	2500	5	43.759	12.5
13	2.337	0.024	0.003985	0.041	2.415	0.079	2.455	0.119	2.493	33	5000	5	38.617	13
13.5	2.184	0.022	0.00456	0.041	2.262	0.078	2.301	0.117	2.338	33	5000	5	33.726	13.5
14	2.032	0.020	0.005271	0.041	2.108	0.077	2.147	0.116	2.184	33	5000	5	29.224	14
14.5	1.930	0.019	0.005891	0.040	2.005	0.076	2.044	0.114	2.080	33	5000	5	26.363	14.5
15	1.829	0.019	0.006506	0.040	1.903	0.075	1.941	0.113	1.977	33	5000	5	23.7	15
15.5	1.727	0.018	0.0073	0.039	1.800	0.074	1.838	0.112	1.873	33	5000	5	21.131	15.5
16	1.626	0.017	0.008232	0.039	1.698	0.073	1.735	0.110	1.770	32	5000	5	18.75	16
16.5	1.524	0.017	0.00938	0.038	1.595	0.072	1.631	0.108	1.666	32	5000	5	16.472	16.5
17	1.422	0.015	0.01076	0.038	1.492	0.071	1.528	0.107	1.562	32	5000	30	14.37	17
17.5	1.320	0.014	0.12590	0.038	1.388	0.069	1.413	0.103	1.456	32	5000	30	12.382	17.5
18	1.219	0.013	0.01465	0.035	1.285	0.067	1.318	0.100	1.350	31	5000	37	10.581	18
18.5	1.117	0.011	0.01742	0.035	1.182	0.066	1.215	0.099	1.247	31	5000	37	8.884	18.5
19	1.016	0.011	0.02108	0.034	1.080	0.065	1.113	0.098	1.144	30	5000	41	7.372	19
19.5	0.965	0.011	0.02356	0.034	1.028	0.064	1.060	0.096	1.091	30	5000	41	6.651	19.5
20	0.914	0.010	0.02605	0.034	0.976	0.063	1.008	0.095	1.038	30	5000	45	5.973	20
20.5	0.863	0.009	0.02946	0.033	0.924	0.061	0.955	0.093	0.984	30	5000	45	5.324	20.5
21	0.813	0.009	0.03293	0.032	0.872	0.06	0.902	0.090	0.931	29	5000	48	4.735	21
21.5	0.762	0.008	0.0375	0.031	0.819	0.058	0.848	0.087	0.876	29	5000	48	4.16	21.5
22	0.711	0.008	0.04305	0.030	0.766	0.056	0.795	0.085	0.822	28	4900	43	3.63	22
22.5	0.661	0.007	0.04983	0.028	0.712	0.052	0.739	0.080	0.765	28	4900	43	3.137	22.5
23	0.610	0.006	0.05848	0.027	0.659	0.050	0.684	0.075	0.708	27	4800	50	2.68	23
23.5	0.584	0.006	0.06384	0.026	0.632	0.048	0.656	0.073	0.680	27	4800	50	2.457	23.5
24	0.559	0.006	0.06965	0.025	0.605	0.047	0.629	0.073	0.652	26	4600	44	2.256	24
25	0.508	0.006	0.08434	0.025	0.554	0.047	0.578	0.071	0.601	26	4600	44	1.866	25
26	0.457	0.005	0.1042	0.024	0.501	0.045	0.523	0.071	0.544	25	4600	47	1.512	26
27	0.417	0.005	0.1252	0.022	0.458	0.042	0.480	0.067	0.500	25	4400	48	1.26	27
28	0.376	0.005	0.1539	0.021	0.417	0.040	0.435	0.064	0.454	24	4400	50	1.027	28
29	0.345	0.005	0.1829	0.020	0.382	0.038	0.401	0.060	0.418	23	4300	53	0.867	29
30	0.315	0.004	0.2193	0.019	0.349	0.035	0.367	0.057	0.384	23	4100	55	0.725	30
31	0.295	0.004	0.2501	0.019	0.329	0.035	0.347	0.053	0.364	23	4100	55	0.637	31
32	0.274	0.004	0.2899	0.018	0.306	0.033	0.323	0.050	0.339	22	4000	53	0.55	32
33	0.254	0.004	0.3374	0.018	0.286	0.033	0.303	0.050	0.319	22	4000	53	0.474	33
34	0.234	0.004	0.3974	0.017	0.265	0.032	0.281	0.048	0.296	22	3900	56	0.403	34
35	0.213	0.003	0.4798	0.015	0.241	0.029	0.255	0.043	0.269	21	3700	59	0.335	35
36	0.193	0.003	0.5842	0.014	0.219	0.027	0.232	0.039	0.245	21	3500	62	0.275	36
37	0.173	0.003	0.7271	0.013	0.197	0.025	0.210	0.036	0.222	20	3300	65	0.222	37
38	0.152	0.003	0.9418	0.012	0.174	0.023	0.186	0.033	0.197	19	3200	67	0.173	38
39	0.132	0.003	0.12496	0.011	0.152	0.021	0.162	0.030	0.171	18	3000	67	0.131	39
40	0.122	0.003	0.14623	0.010	0.141	0.019	0.151	0.028	0.160	17	2800	70	0.112	40

Our major clients



VMI Group Product Range

Copper / Aluminium Rods , Paper Insulated Copper / Aluminium Conductors, Enamelled Copper / Aluminium Rectangular Winding Wires, Enamelled Copper / Aluminium Round Winding Wires / Fiber Glass Covered Rectangular / Round Wires / Submersible Copper Winding Wires / Solid / Compact Sheet (Diamond, Prism, Embossed) / Polycarbonate Sheet / Multiwall Polycarbonate Sheet / Multicell Panel System / Polycarbonate Lathi (Baton) and Poly Shield / Ventilation Base Plate & Fan / Mineral Bottles and Jars / Bare Copper / Aluminium Round Wires, Bare Copper / Aluminium Rectangular Wires, Strips & Profiles.

Our Manufacturing Plants



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