



OHMALLOY MATERIAL CO., LTD.

No. 1211, Mudanjiang Road, Baoshan district, Shanghai 201999

TEL:+86-21-66796338

FAX:+86-21-66796339

Web: www.ohmalloy.com

Email: sales@ohmalloy.com

Stranded Resistance Heating Wire

Recognizing the need for more precisely controlled stranded wire within the heat treatment industry and working closely with our cable customers, OHMALLOY has developed a range of stranded resistance wire in FeCrAl, NiCr, NiMn and Pure Nickel.

These alloys possess the optimum properties for high performance at elevated temperature and in other adverse conditions where reliability and quality is of the paramount consideration

Alloy	Nominal composition %					Resistivity ($\Omega\text{mm}^2/\text{m}$)	Max Temp °C
	Ni	Cr	Fe	Al	Mn		
NiCr80/20	80	20				1.09	1200
NiCr60/15	60	16	Bal			1.11	1150
OCr23Al5		22	Bal	4.8		1.35	1300
OCr20Al5		22	Bal	5.3		1.39	1300
Pure Nickel	99.6					0.09	
NiMn2	98				2	0.11	

Standard stranding size

Alloy	Nominal OD	No of strands	King wire size	Resistance Ω/m	Length m/kg
	mm				
NiCr80/20	2.7	19*0.523	0.574	0.285	29
NiCr60/15	2.76	19*0.523	0.574	0.29	30
NiCr80/20	2.76	37*0.385	0.45	0.279	28
Nickel	2.87	19*0.574	0.574	0.0198	21
NiMn2	2.87	19*0.574	0.71	0.0234	22

Other size stranding wire dimension and configuration can be supplied based on client's special request.