

Alloy Nomenclature Performance	1Cr13Al4	0Cr25Al5	0Cr21Al6	0Cr23Al5	0Cr21Al4	0Cr21Al6Nb	0Cr27Al7Mo2
Continuous service time (Hours/ °C)	--	≥80/1300	≥80/1300	≥80/1300	≥80/1250	≥50/1350	≥50/1350
Micrographic structure	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Magnetic properties	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic

Fe-Cr-Al Alloys with the Diameters and Characteristics

Dia. (mm)	Cross Sectional Area (mm ²)	0Cr23Al5		
		Resistivity $\mu\Omega \cdot m$ 1.35±0.06		
		Resistance Per Meter (20°C Ω/m)	Length Per Kg (m/kg)	Weight Per Meter (kg/m)
0.10	0.0078	173.1	17683	0.0000566
0.12	0.0113	119.5	12206	0.0000819
0.15	0.0177	76.4	7793	0.000128
0.17	0.0227	59.5	6076	0.000165
0.19	0.0284	47.5	4854	0.000206
0.21	0.0346	35.5	3986	0.000276
0.25	0.0491	27.5	2809	0.000356
0.27	0.0573	21.9	2407	0.000447
0.29	0.0661	19.1	2087	0.000513
0.31	0.0755	16.8	1827	0.000583
0.35	0.0962	14.0	1434	0.000697
0.40	0.1257	10.7	1097	0.000911
0.45	0.1590	8.49	867	0.00115
0.50	0.1963	6.88	703	0.00142
0.60	0.283	4.77	496	0.00205
0.70	0.385	3.51	358	0.00279
0.80	0.503	2.69	274	0.00365

Dia. (mm)	Cross Sectional Area (mm ²)	0Cr23AL5		
		Resistivity $\mu\Omega \cdot m$ 1.35 \pm 0.06		
		Resistance Per Meter (20°C Ω/m)	Length Per Kg (m/kg)	Weight Per Meter (kg/m)
0.90	0.636	2.12	217	0.00461
1.00	0.785	1.72	176	0.00569
1.20	1.131	1.194	122	0.00820
1.40	1.539	0.877	89.6	0.01116
1.60	3.01	0.672	68.6	0.01457
1.80	2.54	0.532	54.3	0.01842
2.00	3.14	0.430	43.9	0.02277
2.20	3.80	0.355	36.3	0.02755
2.50	4.91	0.275	28.1	0.03849
3.00	7.07	0.191	19.5	0.05126
3.50	9.62	0.140	14.3	0.06975
4.00	12.57	0.107	11.0	0.09113
4.50	15.90	0.0849	8.67	0.1153
5.00	19.63	0.0688	7.03	0.1423
5.50	23.80	0.0568	5.80	0.1726
6.00	28.30	0.0477	4.88	0.2052
6.50	33.20	0.0407	4.15	0.2407
7.00	38.50	0.0351	3.58	0.2791

ENGINEERING PRODUCTS