



ELECTROVEK-STEEL

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CR-AL-FE ALLOY GENERAL PROPERTIES

		Cr15Al5	Cr23Al5	Cr21Al6Nb	Cr27Al7Mo2
Chemical composition	Cr	14,2-15,5	22,2-24,0	21-23	26.5-27.5
	Al	4-6	4.5-6.5	5-7	6-7
	Fe	Rest	Rest	Rest	Rest
	C	≤0.080	≤0.080	≤0.080	≤0.080
	Si	≤0.70	≤0.70	≤0.70	≤0.70
	Mn	≤0.70	≤0.70	≤0.70	≤0.70
	S	≤0.015	≤0.015	≤0.015	≤0.015
	P	≤0.030	≤0.030	≤0.030	≤0.030
	Mo	-	-	-	1.8-2.2
Max. continuous service temp. of element (°C)		950	1250	1350	1400
Resistivity at 20°C (Ω.mm²/m)		1.25±0.05	1.42±0.05	1.45±0.05	1.53±0.05
Density (g/cm³)		7.1	7.25	7.1	7.1
Thermal conductivity (KJ/m*hour* °C)		52.7	63.2	46.1	45.2
Coefficient of lines expansion (α×10⁻⁶/°C)		15.4	14.7	16.0	16.0
Hardness (H.B.)		200-260	200-260	200-260	200-260
Melting point °C		1450	1500	1510	1520
Elongation at rupture, %		> 16	> 12	> 12	> 10
Tensile strength (N/mm²)		588-735	637-784	637-784	686-784
Micrographic structure		Ferrite	Ferrite	Ferrite	Ferrite
Magnetic properties		magnetic	magnetic	magnetic	magnetic