

Fecral 25/5



Via dell'industria 4 - Cormano (MI) - P.IVA 07928450159
 Tel. +39 0266301824 Fax +39 026150148.
 www.sistemsrl.it
 sistem33@sistemsrl.191.it

Alloy		FECRAL 13/4	FECRAL 25/5	FECRAL 21/4	FECRAL 21-6 NB	FECRAL 27/7-Mo2	FECRAL HRE
Alloy Nomenclature Performance		1Cr13Al4	0Cr25Al5	0Cr21Al4	0Cr21Al6Nb	0Cr27Al7Mo2	0Cr25Al6HRE
Main Chemical composition	Cr	12.0-15.0	23.0-26.0	18.0-21.0	21.0-23.0	26.5-27.8	24.0-27.0
	Al	4.0-6.0	4.5-6.5	3.0-4.2	5.0-7.0	6.0-7.0	5.0-7.0
	Re	opportune	opportune	opportune	opportune	opportune	opportune
	Fe	Rest	Rest	Rest	Rest	Rest	Rest
					Nb0.5	Mo1.8-2.2	Rare hearths 0,50
Max. continuous service temp. of element (°C)		950	1250	1100	1350	1400	1400
Resistivity at 20°C(μΩ·m)		125	137	125	143	153	145
Density(g/cm3)		7,4	7,1	7,3	7,1	7,1	7,1
Thermal conductivity(KJ/m·h·°C)		52,7	46,1	46,9	46,1	46,1	46,1
Coefficient of lines expansion(α×10-6/°C)		15,4	16,0	13,5	16,0	16,0	16,0
Melting point approx.(°C)		1450	1500	1500	1510	1520	1510
Tensile strength(N/mm2)		580-680	630-780	600-700	650-800	680-830	680-830
Elongation at rupture(%)		>16	>12	>12	>12	>10	>12
Variation of area(%)		65-75	60-75	65-75	65-75	65-75	65-75
Repeat Bending frequency(F/R)		>5	>5	>5	>5	>5	>5
Hardness(H.B.)		200-260	200-260	200-260	200-260	200-260	200-260
continuous servicetime(Hours/ °C)		--	≥80/1300	≥80/1250	≥50/1350	≥50/1350	≥50/1350
Micrographic structure		Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Magnetic properties		Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic

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+39 02 66301824

