

Magnetic and mechanical properties of Elastic alloys

Material		3J1	3J9	3J21	3J33	3J40	3J53
Main Components		Ni36CrTiAl	2Cr19Ni9Mo	Co40CrNiMo	Ni18Co9Mo5	Cr40Al3Ni	Ni42CrTiAl
Forms of Supply	Wire	⊙	⊙	⊙	⊙	⊙	⊙
	Strip	⊙	⊙	⊙	⊙		⊙
	Plate	⊙		⊙	⊙		⊙
	Bar	⊙		⊙	⊙	⊙	⊙
Elastic Modulus E cold+aged (MPa)		19000~21000	18500~2000	20000~22000	17500~18000	21500~23500	18000~19500
Shear Modulus G cold+aged (MPa)		7000~8000	7500~7700	7500~8500	6800~7100		6500~7500
Density (g/cm ³)		8.0		8.4	8.0~8.2	7.6	8.0
Max. work temperature (°C)		250	400	550	450	550	350
Resistivity (μΩ·m)		1.02		0.92	0.3~0.4	0.78	1.1
Vickers Hardness HV	cold		380~450			450~510	
	cold+aged	400~450	440~550	680~740	HRC≥48	780~880	350~450
	annealed						
Tensile strength MPa	cold	≥980	1275~2250	120~190			≥930
	cold+aged	≥1370		1960~2450	≥1960		≥1220
	annealed	≤980	≤835	686~784		≤814	≤880
Yield strength MPa	cold						
	cold+aged	≥980			≥1860		≥880
	annealed						
Elongation %	cold			≥3			
	cold+aged	≥5		3~5	≥6		≥5
	annealed	≥20	≥40	40~50		≥40	≥20

Remark: 3J33 is solution and aged .

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