

Austenitic Cast Irons

Technical Data

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 A member of the Chamberlin plc group

Grade	BS 3468 Designation	Material designation (BS EN 13835:2012)		Tensile Strength	0.2% Proof Strength	Elongation	Compression Strength	Charpy V Impact energy value	Modulus of Elasticity	Brinell hardness	Mass Density	Linear Expansion Coefficient (between 20°C and 200°C)	Thermal Conductivity	Specific Heat Capacity	Resistivity	Permeability (where H = 79,58 A/cm)
		Symbol	Number	Rm MPa	Rp0.2 MPa	A %	MPa	J	GPa	HB	g/cm ³	α μm/(m.K)	λ W/(m.K)	c J/(g.K)	μΩ.m	
Engineering	F1	EN-GJLA-XNiCuCr15-6-2	5.1500	170 – 210	-----	2	700 - 840	-----	85 – 105	120 – 215	7.3	18.7	39.00	46 - 50	1.6	1.03
	S2	EN-GJSA-XNiCr20-2	5.3500	370 – 480	210 – 250	7 – 20	-----	11 – 24	112 – 130	140 – 255	7.4 – 7.45	18.7	12.60	46 - 50	1.0	1.05
	S2M	EN-GJSA-XNiMn23-4	5.3501	440 – 480	210 – 240	25 – 45	-----	20 – 30	120 – 140	150 – 180	7.45	14.7	12.60	46 - 50	---	1.02
	S2W	EN-GJSA-XNiCrNb20-2	5.3502	370 – 480	210 – 250	8 – 20	-----	11 – 24	112 – 130	140 – 200	7.40	18.7	12.60	46 - 50	1.0	1.04
	S2C	EN-GJSA-XNi22	5.3503	370 – 450	170 – 250	20 – 40	-----	17 – 29	85 – 112	130 – 170	7.40	18.0	12.60	46 - 50	1.0	1.02
	-	EN-GJSA-XNi35	5.3504	370 – 420	210 – 240	20 – 40	-----	10 - 18	112 – 140	130 – 180	7.60	5.0	12.60	46 - 50	---	---
	S6	EN-GJSA-XNiSiCr35-5-2	5.3505	370 – 500	200 – 270	10 – 20	-----	7 – 12	130 – 150	130 – 170	7.45	15.10	12.60	46 - 50	---	---
Special Purpose	-	EN-GJLA-XNiMn13-7	5.1501	140 – 220	-----	-----	630 – 840	-----	70 – 90	120 – 150	7.40	17.70	39.00	46 - 50	1.2	1.02
	-	EN-GJSA-XNiMn13-7	5.3506	390 – 470	210 – 260	15 – 18	-----	15 – 25	140 – 150	120 – 150	7.30	18.20	12.60	46 - 50	1.0	1.02
	S5S	EN-GJSA-XNiCr30-3	5.3507	370 – 480	210 – 260	7 – 18	-----	5	92 – 105	140 – 200	7.45	12.60	12.60	46 - 50	---	---
	-	EN-GJSA-XNiSiCr30-5-5	5.3508	390 – 500	240 – 310	1 – 4	-----	1 – 3	90	170 – 250	7.45	14.40	12.60	46 - 50	---	1.10
	S3	EN-GJSA-XNiCr35-3	5.3509	370 – 450	210 – 290	7 – 10	-----	4	112 – 123	140 – 190	7.70	5.0	12.60	46 - 50	---	---