



MATERIAL		EURO EN	UK BS	INTERNATIONAL ISO	USA ASTM	GERMANY DIN	ITALY UNI	TENSILE STRENGTH	0.2% PROOF STRESS	ELONGATION
IRON	GREY IRON (150 kg)	1561	1452	185	A48M-94	1691	5007	Min N / mm ²	Min N / mm ²	Min %
	SG IRON (120 kg)	1563	2789	1083	A536	1693	4544			
	Ni RESIST (120 kg)	13835	3468	2892	A436	1694	-			
GREY IRON (180 kg)	EN-JL1010	Grade 100	JL-100	A48-20	GG10	G 10	100	-	-	
	EN-JL1020	Grade 150	JL-150	A48-25	GG15	G 15	150	-	-	
	-	Grade 180	-	-	GG18	-	180	-	-	
	EN-JL1030	Grade 200	JL-200	A48-30	GG20	G 20	200	-	-	
	-	Grade 220	-	A48-35	-	-	220	-	-	
	EN-JL1040	Grade 250	JL-250	A48-40	GG25	G 25	250	-	-	
	EN-JL1050	Grade 300	JL-300	A48-45	GG30	G 30	300	-	-	
	EN-JL1060	Grade 350	JL-350	A48-55	GG35	G 35	350	-	-	
-	Grade 400	-	A48-60	GG40	-	400	-	-		
SG IRON (150 kg)	EN-JS1015	350/22	-	-	-	-	350	220	22	
	EN-JS1025	400/18	400-18	60-40-18	-	-	400	250	18	
	EN-JS1030	420/12	-	60-40-18	GGG 40	GS 420-12	420	270	12	
	EN-JS1040	450/10	450-10	65-45-12	-	-	450	320	10	
	EN-JS1050	500/7	500-7	80-55-06	GGG 50	GS 500-7	500	320	7	
	EN-JS1060	600/3	600-3	80-55-06	GGG 60	GS 600-3	600	370	3	
	EN-JS1070	700/2	700-2	100-70-3	GGG 70	GS 700-2	700	420	2	
	EN-JS1080	800/2	800-2	120-90-02	GGG 80	GS 800-3	800	480	2	
	EN-JS1090	900/2	-	120-90-02	-	-	900	600	2	
Ni RESIST (150 kg)	EN-JL3011	F1	Ni-RESIST 1	TYPE 1	GGL-NiMn 15 6 2	-	170	-	-	
	-	F2	Ni-RESIST 2	TYPE 2	GGL-NiCr 20 2	-	170	-	-	
	-	F3	Ni-RESIST 3	TYPE 3	GGL-NiCr 30 3	-	190	-	-	
	EN-JS3011	S2	Ni-RESIST D-2	D2	GGG-NiCr 20 2	-	370	210	7	
	EN-JS3031	S2W	-	-	GGG-NiCrNb 20 2	-	370	210	7	
	-	S2B	-	D2B	GGG-NiCr 20 3	-	370	210	7	
	EN-JS3041	S2C	Ni-RESIST D-2C	D2C	GGG-Ni 22	-	370	170	20	
	EN-JS3081	S3	Ni-RESIST D-3	D3	GGG-NiCr 30 3	-	370	210	7	



MATERIAL	EURO EN	UK BS	INTERNATIONAL ISO	USA ASTM	USA ASTM	GERMANY DIN	TENSILE STRENGTH	0.2% PROOF STRESS	ELONGATION
COPPER ALLOYS (700 kg)	1982	1400	1190-1	B94			Min N / mm ²	Min N / mm ²	Min %
HC COPPER (1800 kg)	CC040A	HCC1	Cu	B824		17655	150	40	25
HIGH TENSILE BRASS (700kg)	CC762S	HTB3	CuZn25Al5Mn4Fe3	B147		1709	750	450	8
PHOSPHOR BRONZE (700kg)	CC481K	PB1	CuSn11P	B22		1705	250	130	5
LEADED GUNMETAL (700kg)	CC491K	LG2	CuSn5Zn5Pb5	B62	C83600	1705	200	90	13
LEADED GUNMETAL (700kg)	CC492K	LG4	CuSn7Zn2Pb3	B61	C92200	1705	230	130	14
LEADED BRONZE (700kg)	CC495K	LB2	CuSn10Pb10	B584		1716	180	80	5
SAND CAST BRASS (700kg)	CC760S	SCB6	CuZn15As	B146		1709	160	70	20
ALUMINIUM BRONZE (700kg)	CC333G	AB2	CuAl10Fe5Ni5	B148	C95800	1714	600	250	13
DEF STAN 02-747 (700kg)	-	NES 747	-	-	-	-	620	250	15
DEF STAN 02-830 (700kg)	-	NES 830	-	-	-	-	250	130	16
NES 836 Part 1 (200kg)	-	NES 836	-	-	-	-	417	247	5
Crown Metal (200kg)	-	Cupro Nickel	CuNi 70:30	-	-	-	417	247	5

MATERIAL	EURO EN	NOMINAL MATERIAL VALUES (MAX %)							
COPPER ALLOYS	1982	Cu	Ni	P	Pb	Sn	Zn	Al	Fe
HC COPPER	CC040A	100	-	-	-	-	-	-	-
HIGH TENSILE BRASS	CC762S	67	3.0	0.0	0.2	0.2	REM	7.0	4.0
PHOSPHOR BRONZE	CC481K	89.5	0.1	1.0	0.3	11.5	0.05	0.01	0.1
LEADED GUNMETAL	CC491K	87	2.0	0.1	6.0	6.0	6.0	0.01	0.3
LEADED GUNMETAL	CC492K	89	2.0	0.1	3.5	8.0	3.0	0.01	0.2
LEADED BRONZE	CC495K	82	2.0	0.1	11.0	11.0	2.0	0.01	0.3
SAND CAST BRASS	CC760S	88	0.1	-	0.5	0.3	REM	0.01	0.2
ALUMINIUM BRONZE	CC333G	83	6.0	-	0.03	0.1	0.5	10.5	5.5
CUPRO NICKEL	CC380H	REM	11.0	-	0.03	-	0.5	0.01	1.8
DEF STAN 02-747	NES 747	REM	5.5	-	0.01	0.05	0.05	9.5	5.0
DEF STAN 02-830	NES 830	REM	2.0	-	5.0	8.0	3.0	0.01	0.2
NES 836 Part 1	NES 836	REM	16.5	-	1.2	1.2	36.0	0.6	0.3
Cupro Nickel	CuNi 70:30	REM	16.5	-	1.2	1.2	36.0	0.6	0.3



MATERIAL	EURO EN	UK BS	INTERNATIONAL ISO	USA ASTM	GERMANY DIN	ITALY UNI	CONDITION	TENSILE STRENGTH	ELONGATION
ALUMINIUM ALLOYS (500 kg)	1706	1490	R208 R164	B179-73	225-349	1973		Min N / mm ²	Min %
	AC-45400	LM4	AlSi5Cu3	A319	225	3052	M	140	2
							TF	230	-
	AC-14100	LM6	AlSi12	A413	230	4514	M	160	5
	AC-4200	LM25	AlSi7Mg	A356	-	3599	M	130	2
							TE	150	1
							TF	230	-

MATERIAL	UK BS	NOMINAL MATERIAL VALUES (MAX %)							
ALUMINIUM ALLOYS	1490	Al	Cu	Mg	Si	Fe	Mn	Ni	Zn
	LM4	REM	4.0	0.2	6.0	0.8	0.6	0.3	0.5
	LM6	REM	0.1	0.1	13.0	0.6	0.5	0.1	0.1
	LM25	REM	0.2	0.6	7.5	0.5	0.3	0.1	0.1

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