

		Similar Grades				Grades for Potential Substitution		
Stocked Product	BS 970: 1955	British Standards	European	Werkstoff	SAE/AISI	Lesser	Greater	Supply Size Range
230M07 (230)	EN1A		11SMn30	1.0715	1113 / 1213		070M20 (070)	10mm-80mm Dia
230M07Pb (23P)	EN1A Leaded		11SMnPb30	1.0718				10mm-80mm Dia
070M20 (070)	EN3A EN32	080A15	C15 C20 ST52-3 (ST5) S235 (S23) S275 (S27 & S28)	1.0402 1.0401 1.1151	1020 1023		LF2 (LF2)	10mm - 860mm Dia
080M40 (080)	EN8 EN8D	080A42 (08A)	C40	1.0511	1040		C45E (08B) 070M55 (07A)	10mm - 860mm Dia
C45E (08B)		080M46 (08E) 080M50 (08I)			1050 (10M)	080M40 (080)	070M55 (07A)	32mm - 860mm Dia
070M55 (07A)	EN9	080M50 (08I)	C55 C60 (C60)	1.0535	1050 (10M) 1055	C45E (08B)		32mm - 860mm Dia
150M19 (150)	EN14		ST52-3 (ST5) S275 (S27 & S28) S355 (S36 & S38)	1.1170	1320 1024	LF2 (LF2)		32mm - 860mm Dia
605M36 (605)	EN16						38MB5 (035) 4130 (41C) 945M38 (945)	32mm - 240mm Dia
709M40 (709)	EN19	708M40 (708)	42CrMo4 (C44)	1.7225	4140 (41F & 41G) 4142 B7 L7	945M38 (945) 41CrS4 (C41)	4145 (411) 4340 (43B) 817M40 (817) 826M40 (826)	32mm - 860mm Dia
817M40 (817)	EN24		34CrNiMo6 (C36) 40CrNiMo6	1.6565 1.6582	4340 (43B)		4145 (411) 4340 (43B) 826M40 (826) 4330V (43V)	32mm - 860mm Dia
826M40 (826)	EN26		40NiMoCr10-5	1.6745		4340 (43B)	4330V (43V)	45mm - 405mm Dia
835M30 (83A)	EN30B		30NiCrMo16-6	1.6747		1.2767	4330V (43V)	30mm - 400mm Dia
722M24 (722)	EN40B		32CrMo12	1.7361				32mm - 860mm Dia
535A99 (535)	EN31		100Cr6 (CC1)	1.3505	52100		100CrMo7-3 (CC3)	38mm - 235mm Dia
665M17 (665)	EN34				4615 4617		655M13 (655)	60mm - 250mm Dia
655M13 (655)	EN36	832M13 (832)	14NiCr4	1.5752	3415 3310	18CrNiMo7-6 (C18)	835M15 (835)	32mm - 860mm Dia
835M15 (835)	EN39		15NiCrMo16-5	1.6723				38mm - 210mm Dia
8620 (86B)		635M15 (635) 805M20	21NiCrMo2-2	1.6543	8617	16MnCr5 (M15)	8630 (86D) 655M13 (655) 18CrNiMo7-6 (C18)	45mm - 280mm Dia
16MnCr5 (M15)		590M17	20MnCr5 (M25)	1.7131	5115 5117		8620 (86B) 635M15 (635) 655M13 (655) 18CrNiMo7-6 (C18)	95mm - 250mm Dia
4140 mod (41F & 41G)	EN19	708M40 (708) 709M40 (709)	42CrMo4 (C44)	1.7225	4142 B7 (B7A) L7		4340 (43B)	32mm - 860mm Dia
4145 mod (411)						817M40 (817)	4340 (43B)	32mm - 760mm Dia
4330V (43V)						826M40 (826)	835M30 (83A)	120mm - 368mm Dia
17-4 (Y17)				1.4542	Grade 630 S17400 (UNS)			36mm - 305mm Dia

The above represents an example of products available. Others grades are available on request.
Also, we can offer a bespoke product design service to create the most cost effective raw material solution for your application.

Similar Grades – Grades of similar (not identical) chemistry. Please note the similar grades are based on chemistry only, and may not meet the necessary mechanical properties (in the standard 'as stocked' state).

Grades for Potential Substitution – Grades capable of achieving similar mechanical properties (material may need further treatment to achieve the desired properties). The potential substitution grades are based on mechanical properties, not necessarily the chemical analysis.

Notes:

- 1) Items in **bold** denote stocked item
- 2) Where queries exist regarding offering similar or substituted grades, please refer to the Sales Team.

For full details on grades, service and technical data please call 0114 2331133