

CROMAX® SUMMARY OF GRADES

GRADE	CHEMICAL COMPOSITION %										MECHANICAL PROPERTIES				
	C	Si	Mn	P	S	Cr	Mo	Ni	V	Ce	Size mm	Yield MPa	U.T.S MPa Min.	Elong'n % min:	Hardness Brinell Max.

Cromax 280X	0.17	0.30	1.45	-	0.02	0.20	-	-	-	-	<20	520	650-800	12	200-240
	0.20	0.45	1.60	0.03	0.035	0.30	0.10	0.30	0.12	0.55 max	20-90	520	650-800	19	200-240
											>90	440	550-700	19	180-230

DESCRIPTION & TYPICAL APPLICATIONS

Chrome plated (20um min) micro alloyed low carbon steel. It combines a unique combination of high yield strength with good machinability and weldability.

Cromax 42CrMo4 (4140)	0.45	0.40	0.90	0.025	0.02	1.20	0.30	-	-	-	<40	750	1000-1200	11	295-355
	0.45	0.40	0.90	0.025	0.02	1.20	0.30	-	-	-	40-95	650	900-1100	12	265-325
											>95	550	800-950	13	235-295

DESCRIPTION & TYPICAL APPLICATIONS

Chrome plated (20um min) hardened and tempered high tensile base steel. Used when elevated strength is required in combination with high toughness.

Cromax 482IH	0.34	0.15	1.20	0.025	0.015	-	-	-	0.08	0.01	ALL	580	850-1000	14	250-300
	0.41	0.80	1.60	0.025	0.02	0.30	0.08	-	0.15	0.72					

DESCRIPTION & TYPICAL APPLICATIONS

Induction hardened based on a modern micro alloyed steel, which is characterised by high strength in the as rolled condition. The addition of an induction hardened layer makes this grade an ideal selection for heavy duty piston rods.