

**MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA**

*The one-stop source for all your METRIC METALS needs!*

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**COMPARISON CHART - U.S.A. STEEL GRADES VS METRIC PROPERTY CLASS**

**PHYSICAL REQUIREMENTS**

		YIELD(MPA)	TENSILE(MPA)	ELONGATION	REDUCTION AREA	HARDNESS (ROCKWELL)
METRIC PROPERTY CLASS	4.6	240	400	22%	35%	RB 67-95
	4.8	340	420	14%	35%	RB 71-95
	5.8	420	520	10%	35%	RB 82-95
AISI	1018	480	585	28%	55%	RB 85-89
	1020					RB 70-85
	1045					RB 92.5-99
	12L13					
	12L14					RB 85-89
	1144					RC 17-23

**PHYSICAL REQUIREMENTS**

		YIELD(MPA)	TENSILE(MPA)	ELONGATION	REDUCTION AREA	HARDNESS (ROCKWELL)
METRIC PROPERTY CLASS	8.8	660	830	12%	35%	RC 23-34
ASTM	B7	720	860	16%	50%	RC 25-34
AISI	4140 HT					RC 32

		YIELD(MPA)	TENSILE(MPA)	ELONGATION	REDUCTION AREA	HARDNESS (ROCKWELL)
METRIC PROPERTY CLASS	10.9	940	1040	09%	35%	RC 33-39
ETD	150	900	1035	10%	37%	RC 32

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