











# IMPERIAL vs. METRIC

## REFERENCE CHART

### MATERIALS, MECHANICAL PROPERTIES AND MARKINGS

IMPERIAL			METRIC		
<b>Grade 5</b>	<b>Grade 8</b>	<b>L9</b>	<b>Class 8.8</b>	<b>Class 10.9</b>	<b>Class 12.9</b>
					
					
<b>Grade 5</b>	<b>Grade 8</b>		<b>Class 8</b>	<b>Class 10</b>	

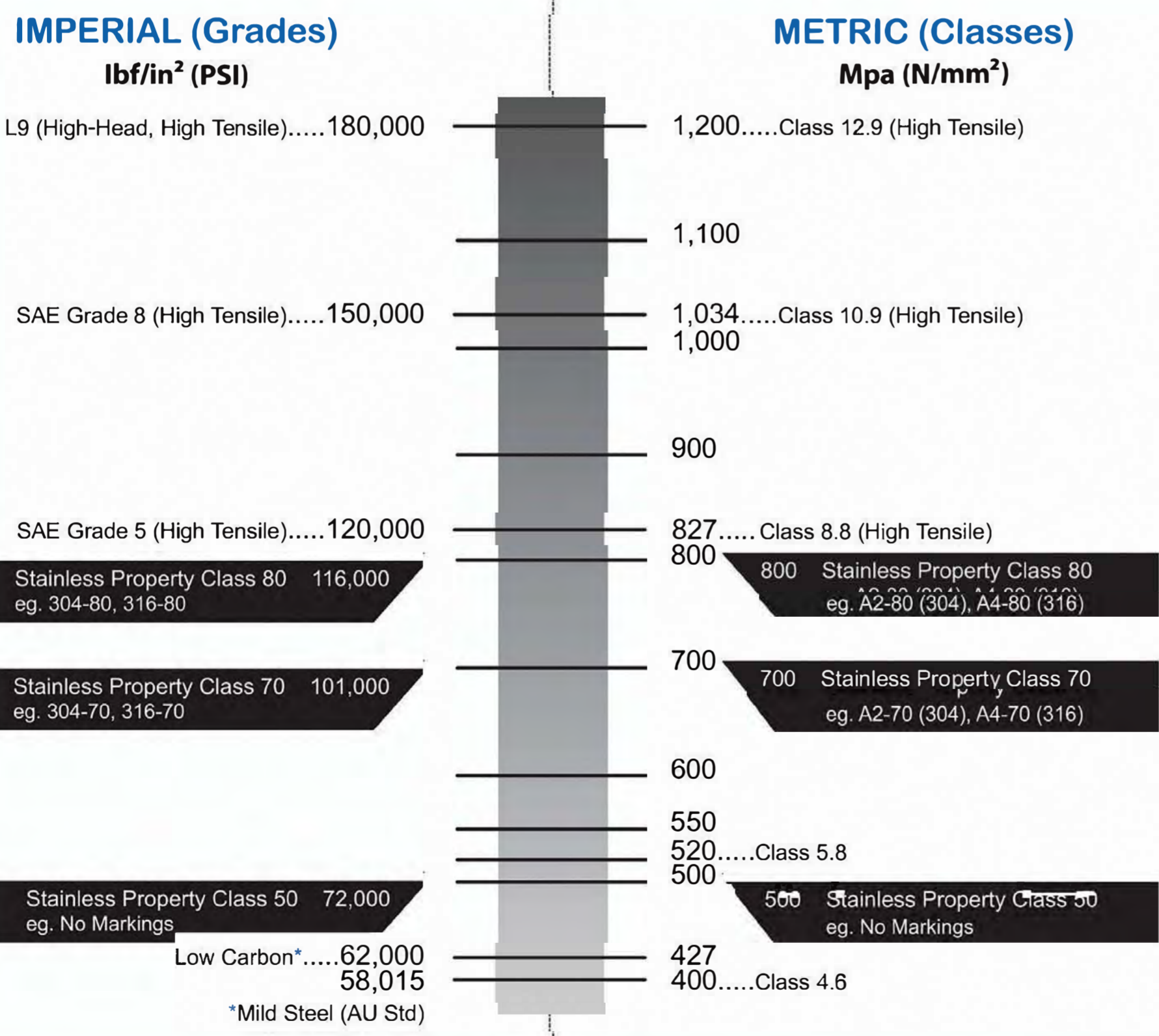
### COARSE & FINE

INCH	
COARSE	FINE
1/4-20	1/4-28
5/16-18	5/16-24
3/8-16	3/8-24
7/16-14	7/16-20
1/2-13	1/2-20
9/16-12	9/16-18
5/8-11	5/8-18
3/4-10	3/4-16
7/8-9	7/8-14
1-8	1-14
1 1/8-7	1 1/8-12
1 1/4-7	1 1/4-12
1 3/8-6	1 3/8-12
1 1/2-6	1 1/2-12

METRIC	
COARSE	FINE
M6-1.00	M6-0.75
M8-1.25	M8-1.00
M10-1.50	M10-1.25
M12-1.75	M12-1.50*
M14-2.00	M14-1.50
M16-2.00	M16-1.50
M20-2.50	M20-1.50
M22-2.50	M22-1.50
M24-3.00	M24-2.00
M27-3.00	M27-2.00
M30-3.50	M30-2.00
M36-4.00	M36-2.00
M42-4.50	M42-2.00
M48-5.00	M48-2.00

### TENSILE STRENGTH COMPARISON



### ACCURATE CONVERSION FACTORS

• 1000 PSI (lbf/in<sup>2</sup>) = 6.8948 Mpa • 1 Mpa = 145,038 PSI (lbf/in<sup>2</sup>)

\*M12-1.25 (AU Std)

### INCH & METRIC

INCH	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2
METRIC	M6	M8	M10	M12	M16	M20	M22	M24	M27	M30	M33	M36	M42	M48