

## Chapter 2

**2-1** From Table A-20

$$S_{ut} = 470 \text{ MPa (68 kpsi)}, \quad S_y = 390 \text{ MPa (57 kpsi)} \quad \text{Ans.}$$

**2-2** From Table A-20

$$S_{ut} = 620 \text{ MPa (90 kpsi)}, \quad S_y = 340 \text{ MPa (49.5 kpsi)} \quad \text{Ans.}$$

**2-3** Comparison of yield strengths:

$$S_{ut} \text{ of G10500 HR is } \frac{620}{470} = 1.32 \text{ times larger than SAE1020 CD} \quad \text{Ans.}$$

$$S_y \text{ of SAE1020 CD is } \frac{390}{340} = 1.15 \text{ times larger than G10500 HR} \quad \text{Ans.}$$

From Table A-20, the ductilities (reduction in areas) show,

$$\text{SAE1020 CD is } \frac{40}{35} = 1.14 \text{ times larger than G10500} \quad \text{Ans.}$$

The stiffness values of these materials are identical  $\text{Ans.}$

	$S_{ut}$ MPa (kpsi)	$S_y$ MPa (kpsi)	Table A-20 Ductility $R\%$	Table A-5 Stiffness GPa (Mpsi)
SAE1020 CD	470(68)	390 (57)	40	207(30)
UNS10500 HR	620(90)	340(49.5)	35	207(30)

**2-4** From Table A-21

$$1040 \text{ Q\&T} \quad \bar{S}_y = 593 (86) \text{ MPa (kpsi)} \quad \text{at } 205^\circ\text{C (400}^\circ\text{F)} \quad \text{Ans.}$$

**2-5** From Table A-21

$$1040 \text{ Q\&T} \quad R = 65\% \quad \text{at } 650^\circ\text{C (1200}^\circ\text{F)} \quad \text{Ans.}$$

**2-6** Using Table A-5, the specific strengths are:

$$\text{UNS G10350 HR steel: } \frac{S_y}{W} = \frac{39.5(10^3)}{0.282} = 1.40(10^5) \text{ in} \quad \text{Ans.}$$

$$2024 \text{ T4 aluminum: } \frac{S_y}{W} = \frac{43(10^3)}{0.098} = 4.39(10^5) \text{ in} \quad \text{Ans.}$$

$$\text{Ti-6Al-4V titanium: } \frac{S_y}{W} = \frac{140(10^3)}{0.16} = 8.75(10^5) \text{ in} \quad \text{Ans.}$$

ASTM 30 gray cast iron has no yield strength.  $\text{Ans.}$

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**Lauren Gardner**



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