

Name: _____ Date: _____ Class: _____

Class Data Table **Answer Key**

| Sample Alloy Type | Chemical Composition | UTS (MPa) | Density (kg/m ³) | Specific Strength Pa/(kg/m ³) |
|----------------------------|---|-----------|------------------------------|---|
| 6061 aluminum | Aluminum, chromium, copper, iron, magnesium, manganese, silicon, titanium, zinc | 310 | 2720 | 0.11 |
| 464 brass | Copper, tin, zinc | 379 | 8430 | 0.04 |
| 220 bronze | Copper, zinc | 265 | 8900 | 0.03 |
| 101 copper | Arsenic, copper, oxygen, phosphorus, antimony, tellurium | 241 | 8940 | 0.03 |
| 625 nickel | (mostly) nickel, chromium, molybdenum, niobium | 827 | 8908 | 0.09 |
| 304 stainless steel | Iron, chromium, nickel, silicon, copper, manganese, phosphorus, sulfur | 586 | 7680 | 0.08 |
| EN 988 zinc | Zinc, copper (less than 1%) | 150 | 7135 | 0.02 |