## - INTRODUCTION

Aufhauser Low Fuming Bronze Nickel is similar to Naval Bronze (C470). The addition of iron and manganese increases the hardness and strength of the weld deposit while nickel ensures uniform distribution of iron in the deposit. A boric acid or borax type flux such as Aufhauser Flux600 is recommended. A neutral or slightly oxidizing flame should be used. Preheating may be required for some applications. Also available precoated with the appropriate flux.

## - APPLICATIONS

- Braze or oxyacetylene welding of steel, cast iron, brass and bronze.
- Building up wearing surfaces and bearings.


## - CHEMICAL COMPOSITION

| Copper | Lead | Iron | Tin | Zinc | Nickel | Aluminum | Manganese | Silicon |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 56.0-60.0 | 0.05 | 0.25-1.25 | 0.75-1.10 | Remainder | 0.20-0.80 | 0.01 | 0.01-0.50 | 0.04-0.15 |

Note: Copper contains Silver; Nickel contains Cobalt. All values are maximum percentage, unless shown in range.

- PHYSICAL and MECHANICAL PROPERTIES

| Melting Point: | $1620^{\circ} \mathrm{F}$ |
| ---: | :--- |
| Solidification: | $1590^{\circ} \mathrm{F}$ |
| Density at $68^{\circ} \mathrm{F}:$ | $.296 \mathrm{lb} / \mathrm{in}^{3}$ |
| Specific Gravity: | 8.19 |
| Tensile Strength: | $65,000 \mathrm{psi}$ |
| Elongation, in 2 in.: | $25 \%$ |
| Brinell Hardness: | 92 |



- SPECIFICATIONS MEET or EXCEED
- AWS A5.8 Class RBCuZn-B
- ASME SFA5.8 Class RBCuZn-B
- QQ-R-571C
- MIL-R-19631B
- STANDARD SIZES AND DIAMETERS

Diameters Round Wire Rod
1/32", $1 / 16^{\prime \prime}, 3 / 32^{\prime \prime}, \quad$ Not specified $18^{\prime \prime}$ 1/8", 5/32", 3/16", 36" 1/4", 5/16", 3/8"

