

SilverAlloy A-25Ni2

◆ INTRODUCTION

SilverAlloy A-25Ni2 is a cadmium-free silver brazing alloy. It is recommended for brazing tungsten carbide to steel and stainless steel.

◆ APPLICATIONS

Typical applications are the joining of steels, stainless steels, tungsten carbide.

◆ CHEMICAL COMPOSITION

| <u>Silver</u> | <u>Copper</u> | <u>Zinc</u> | <u>Nickel</u> | <u>Manganese</u> |
|---------------|---------------|-------------|---------------|------------------|
| 25.0% | 38.0% | 33.0% | 2.0% | 2.0% |

◆ PHYSICAL and MECHANICAL PROPERTIES

| | |
|------------------|------------------------------|
| Solidus | 1305 °F (705 °C) |
| Liquidus | 1475 °F (800 °C) |
| Brazing Range | 1525-1600 °F (830-870 °C) |
| Specific Gravity | 8.51 |
| Density | 4.48 troy oz/in ³ |
| Color | Brass Yellow |



◆ SPECIFICATIONS MEET or EXCEED

- AWS A5.8 BAg-26
- UNS P07250

◆ AVAILABLE FORMS

- Powder/Paste
- Wire, Rods, Foil
- Specialty preforms per customer specifications

◆ STANDARD ROD SIZES AND DIAMETERS

- Diameters: 1/32", 3/64", 1/16", 3/32", 1/8"
- Sizes: 1, 3, 5, or 50 troy ounces
- Lengths: 18, 20, or 36 inches

◆ PROPERTIES OF BRAZED JOINTS

Generally, the joint strength using SilverAlloy A-25Ni2 will usually surpass the strengths of the base metals. Strength is a function of the base metals being joined, type of joint, design of joint, joint clearances and brazing procedures.