

## AQUASOL LEAD-FREE SOLDER ALLOY

### FEATURES

- High Purity
- Melting Temperature 214°C-234°C (416°F-454°F)

### DESCRIPTION

Aquasol is a standard grade lead-free high purity alloy comprised of 95.75% tin, 0.25% silver, 3% copper, and 1% antimony. Aquasol has a melting temperature range of 214°C-234°C (416°F-454°F). This solder is ideal for copper plumbing joints. Aquasol complies with the Canadian Plumbing and Boiler Codes, the Canadian Lead-Free Solder Standard, and the United States Environmental Protection Agency's January 2014 Lead-Free Safe Drinking Water Act.

### AVAILABILITY

| P/N  | Description                         | Weight             | Diameter           | QTY |
|------|-------------------------------------|--------------------|--------------------|-----|
| 5163 | Aquasol Lead-Free Solid Wire Solder | 113 g<br>(1/4 lb)  | 3 mm<br>(0.125 in) | 48  |
| 5165 | Aquasol Lead-Free Solid Wire Solder | 227 g<br>(1/2 lb)  | 3 mm<br>(0.125 in) | 48  |
| 5167 | Aquasol Lead-Free Solid Wire Solder | 454 g<br>(1 lb)    | 3 mm<br>(0.125 in) | 24  |
| 5180 | Aquasol Lead-Free Solid Wire Solder | 2.27 kg<br>(5 lb)  | 3 mm<br>(0.125 in) | 8   |
| 5362 | Aquasol Lead-Free Solid Wire Solder | 9.08 kg<br>(20 lb) | 3 mm<br>(0.125 in) | 2   |

### TYPICAL ALLOY COMPOSITION

| Typical Alloy Composition |          |         |         |
|---------------------------|----------|---------|---------|
| Sn: Balance               | Ag: 0.25 | Cu: 3.0 | Sb: 1.0 |

### TYPICAL TENSILE STRENGTH

| Ultimate Tensile Strength (MPa) | Ultimate Tensile Strength (psi) |
|---------------------------------|---------------------------------|
| 76                              | 11023                           |



### HANDLING & STORAGE

| Parameter  | Time       | Temperature      |
|------------|------------|------------------|
| Shelf Life | Indefinite | Room Temperature |

Indefinite shelf life applies to solid solder. For other product categories, refer to those specific TDSs. Consult AIM Aquasol SDS for additional handling procedures and precautions.

### SPECIFICATION COMPLIANCE

- ASTM B32
- NSF/ANSI 61
- NSF/ANSI 372
- UPC
- IAPMO R&T

### FLUX COMPATIBILITY

Nitro Flux is the preferred product for use with Aquasol although Aquasol is compatible with most major grades of fluxes.

### SAFETY

Use with adequate ventilation and proper personal protective equipment. Refer to the accompanying SDS for any specific emergency information. Do not dispose of any hazardous materials in non-approved containers.