

Bellman-Melcor, A Prince Izant Company
 7575 West 183rd Street
 Tinley Park, Illinois 60477
Phone: 1-800-367-6024 • **Fax:** 1.888.BRAZE-IT-272.9348
Email: sales@bellmanmelcor.com • **Website:** www.bellmanmelcor.com

Item # Brazelt A-25T, Cadmium Free Brazing Alloys

Brazelt A25T is frequently used for the brazing of steel, copper and brass. The low silver content makes it an economical alloy in cases where lower ductility is not an issue.

[Nominal Composition](#) · [Specifications](#) · [Physical Constants](#) · [Properties of Brazed Joints](#) · [Applications](#) · [Safety Information](#)

Nominal Composition

| | |
|----------------------|---------|
| Silver (Ag) | 25 |
| Copper (Cu) | 40 |
| Zinc (Zn) | 33 |
| Nickel (Ni) | 0 |
| Tin (Sn) | 2 |
| Total Other Elements | .15 max |

Specifications

| | |
|---|---|
| Melting Pt. | 1265 °F 685 °C |
| Flow Pt. | 1420 °F 770 °C |
| MBT ¹ | 1550 |
| AWS A5.8 | BAg-37 |
| ASME | BAg-37 |
| AMS | 4772 |
| Resale Options ² | Brazing Paste Brazing Rod Brazing Strip Brazing wire |
| Preform Options | Brazing Discs Brazing Rings Brazing Washers Custom Designs Cut-Offs Edgewounds |
| Approx. Wire Length (BCuP/lb.) (BAg/Tr.oz) | 285 in @ 0.031 diameter 31 in @ 0.093 diameter 70 in @ 0.062 diameter |

¹ Recommended Brazing Temperature

² Brazing Wire & Brazing Strip - Spooling Available
 Brazing Rod - Flux Coating Available

Physical Constants

| | |
|---------|-------------------|
| Density | 4.62 T.oz./cu.in. |
|---------|-------------------|

| | |
|--------------|--------------|
| Color | Light Yellow |
|--------------|--------------|

Properties of Brazed Joints

Generally, the joint strength using Brazelt A25T is greater than that of the base metals its joining. Strength is a function of the metals being joined, the type of joint, joint design and clearances, and brazing procedures.

Applications

Least silver of this family of brazing alloys. Moderate ductility limits joint design and application.

Safety Information

It is essential that adequate ventilation be provided so that personnel will not inhale gases and fumes while brazing. The operation and maintenance of brazing equipment should conform to ANSI/ASC Z49.1, "Safety in Welding, Cutting, and Allied Processing." For more information, refer to the MSDS.