

# ***Belmont***

**METALS INC.**

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## **DATA SHEET**

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### **BELMONT 8951 ALLOY SOLDER** **(95 ZINC, 5 ALUMINUM)**

BELMONT'S ALLOY 8951 (95% ZINC, 5% ALUMINUM) SOLDER HAS A MELTING RANGE OF ABOUT 725°F. THE SOLDER HAS A WETTING CAPABILITY ON ALUMINUM SUPERIOR TO THAT OF PURE ZINC, FLOWING READILY, AND SHOWS LITTLE TENDENCY TO BALL UP AND RUN AWAY FROM THE JOINT. IT HAS LESS TENDENCY TO ALLOY WITH OR PENETRATE INTO THE ALUMINUM THAN PURE ZINC.

SOLDERING CAN BE DONE BY FURNACE, TORCH, DIP, RESISTANCE OR ULTRASONIC PROCEDURES. IF A FLUX IS USED, IT IS NORMALLY A REACTION TYPE OF FLUX.

THE STRENGTH OF JOINTS SOLDERED WITH BELMONT'S 8951 ALLOY GENERALLY EXCEED THE STRENGTH OF THE BASE METAL.

RESISTANCE TO CORROSION OF JOINTS SOLDERED WITH 95ZN-5AL IS SUPERIOR TO THAT OBTAINABLE WITH OTHER SOLDERS; IT IS COMPARABLE TO THAT OBTAINED WITH PURE ZINC.

SOLDERING WITH 8951 SOLDER IS USEFUL ON ALMOST ALL OF THE ALUMINUM ALLOYS AND CAN BE DONE WITH EASE ON VIRTUALLY ALL-DISSIMILAR METALS. WHEN SOLDERING ALUMINUM TO COPPER-BASE ALLOY JOINTS WITH 95ZN-5AL SOLDER, PRECAUTIONS MUST BE TAKEN TO PREVENT EXCESSIVE ALLOYING. PRECOATING THE COPPER WITH A SILVER-BASE ALLOY IS AN EFFICIENT PREVENTIVE MEASURE.

### **CHEMISTRY**

<b><u>ELEMENT</u></b>	<b><u>RANGE</u></b>
ZINC	BALANCE (95)
ALUMINUM	4.75 - 5.25
COPPER	0.10 MAX.
IRON	0.075 MAX.
LEAD	0.004 MAX.

### **PHYSICAL PROPERTIES**

DENSITY	0.24 LB./Cu In.
MELTING POINT	715°F – 725°F

### **FORMS**

2-20 INGOT, REGULAR BAR, CAPPING BAR.