



Aufhauser Corporation  
 39 West Mall  
 Plainview, NY 11803  
 Telephone:  
 516-694-8696  
 800-645-9486  
 Fax:  
 516-694-8690

## AL-43 Electrode

### ◆ INTRODUCTION

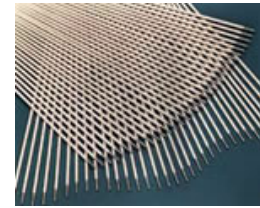
Aufhauser AL-43 Electrode is designed for DC (reverse polarity) arc welding of aluminum and aluminum alloys. An extruded coating makes this the smoothest aluminum electrode now commercially available. Aufhauser AL-43 Electrode contains approximately 5% silicon, which provides superior fluidity at welding temperatures. For this reason, it is preferred for general purpose welding. AL-43 weld metal has fair ductility and a minimum tensile strength of 14,000 psi. This electrode produces a smooth weld bead on flat, fillet or vertical jobs. Arc action has very low spatter and is smooth. Slag is easily removed.

### ◆ APPLICATIONS

- Welding the 6XXX series aluminum alloys, the 5XXX series aluminum alloys, and aluminum-silicon casting alloys, as well as aluminum base metals 1100, 1350 (EC), and 3003.

### ◆ CHEMICAL COMPOSITION

| <u>Aluminum</u> | <u>Silicon</u> | <u>Iron</u> | <u>Copper</u> | <u>Manganese</u> | <u>Magnesium</u> | <u>Zinc</u> | <u>Titanium</u> | <u>Beryllium</u> |
|-----------------|----------------|-------------|---------------|------------------|------------------|-------------|-----------------|------------------|
| Remainder       | 4.5-6.0        | 0.8         | 0.30          | 0.05             | 0.05             | 0.10        | 0.20            | 0.0008           |
| <u>Each</u>     | <u>Total</u>   |             |               |                  |                  |             |                 |                  |
| 0.05            | 0.15           |             |               |                  |                  |             |                 |                  |



### ◆ PHYSICAL and MECHANICAL PROPERTIES

|                   |                  |
|-------------------|------------------|
| Tensile Strength: | 14,000 psi, min. |
|-------------------|------------------|

### ◆ SPECIFICATIONS MEET or EXCEED

- AWS A5.3, Class E4043
- ASTM E4043
- MIL-E-15597 Type MIL-4043

### ◆ STANDARD SIZES

- Sizes: 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8"
- Length: 14"
- Package: 5 lb container, 5 containers per master carton