**ALUMINUM FILLER METAL SELECTION CHART**

**MEAL GROUPS**

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<th>Weld Metal</th>
<th>Pure Alum.</th>
<th>Aluminum - Copper</th>
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**Economic Considerations:**

1. There is a range of filler metals that are not as expensive for your application. (See coated in the row for cost effectiveness.)
2. Locate the base metal to be welded to the left or right column on the chart and position the weld metal in the center.
3. Note the row that gives you the properties you need, follow that row down to the bottom of the chart and position the weld metal in the center.
4. Once you identify the row that gives you the properties you need, follow that row down to the bottom of the chart and position the weld metal in the center.

**Filler Metal Selections:**

- **Low Strength:**
  - MIG or TIG welding may require the use of a more expensive filler metal if it is required to meet high strength requirements.
  - It is recommended to use the lowest strength filler metal that is capable of withstanding the welding process.

- **Medium Strength:**
  - MIG or TIG welding may require the use of a more expensive filler metal if it is required to meet high strength requirements.
  - It is recommended to use the lowest strength filler metal that is capable of withstanding the welding process.

- **High Strength:**
  - MIG or TIG welding may require the use of a more expensive filler metal if it is required to meet high strength requirements.
  - It is recommended to use the lowest strength filler metal that is capable of withstanding the welding process.

**Welding Procedures:**

- **Filler Metal Selection:**
  - Choose the appropriate filler metal based on the weld metal properties (There may be more than one filler metal that is acceptable.)
  - Once you have identified the properties you need, follow those properties down to the bottom of the chart.
  - Once you have identified the properties you need, follow those properties down to the bottom of the chart.

**Notes:**

1. Always review the appropriate selection sections to ensure that all necessary properties are met.
2. Always review the appropriate selection sections to ensure that all necessary properties are met.
3. Always review the appropriate selection sections to ensure that all necessary properties are met.
4. Always review the appropriate selection sections to ensure that all necessary properties are met.
5. Always review the appropriate selection sections to ensure that all necessary properties are met.
6. Always review the appropriate selection sections to ensure that all necessary properties are met.

**References:**

- **5XXX Series Strength Ratings:**
  - 5XXX Series Strength Ratings
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**Specialties:**

- **Solutionizing and/or Precipitation Hardening:**
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**Aluminum Fillers:**

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**Aluminum Welding:**

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**Aluminum Welding Tips:**

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**Aluminum Welding Precautions:**

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**Aluminum Welding Applications:**

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