The Everyday Pocket Handbook for Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW)

Number 4 in a series

Compiled as a useful tool for on-the-job welding personnel by the AWS Product Development Committee
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<th>Example</th>
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<tbody>
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<td>Steel, carbon</td>
<td>A5.18</td>
<td>ERXXS-Y</td>
<td>EXXC-Y</td>
<td>Tensile strength × 1000 (psi)</td>
<td>ER70S-3</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>E70C-3</td>
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<tr>
<td>Steel, low alloy</td>
<td>A5.28</td>
<td>ERXXS-Y</td>
<td>EXXC-Y</td>
<td>Tensile strength × 1000 (psi)</td>
<td>ER80S-B2</td>
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<td>E80C-B2</td>
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<td>Stainless alloy (308, 410, etc.)</td>
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<td>EC308L</td>
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<td>Aluminum</td>
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<td>Aluminum alloy (4043, 5083, etc.)</td>
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<td>Nickel</td>
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<td>Titanium</td>
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<td>ERTi-5</td>
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*Legend*
- E — Filler metal may be used as an electrode
- R — Filler metal may be used as a rod
- S — Solid filler metal
- C — Composite or stranded filler metal
- Y — Designator (or combination of designators) that describe specific alloy, shielding gas to be used, diffusible hydrogen limit, etc. Refer to the appropriate AWS Filler Metal Specification shown in table for explanation.