

# TECHNIWELDUSA

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
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## TYPICAL MATERIAL TEST REPORT

| ITEM CLASSIFICATION   |                      |
|---|----------------------|
| <b>ALLOY</b>  | <b>SPECIFICATION</b> |
| ER308L  | AWS A5.9             |
| APPLICATIONS  |                      |
| Ideal for welding types 304L, 321, and 347 stainless steel.<br>Suitable for applications at cryogenic temperatures. |                      |

| TYPICAL CHEMICAL COMPOSITION |                |      |       |    |      |  |
|------------------------------|----------------|------|-------|----|------|--|
|                              | ELEMENT        | C    | P     | Ni | Si   |  |
|                              | <b>AVERAGE</b> | 0.02 | 0.011 | 10 | 0.32 |  |

|  | ELEMENT        | S     | Mn   | Cr   |  |  |
|--|----------------|-------|------|------|--|--|
|  | <b>AVERAGE</b> | 0.009 | 1.70 | 20.0 |  |  |

| TYPICAL MECHANICAL PROPERTIES |                      |                      |            |
|-------------------------------|----------------------|----------------------|------------|
|                               | Tensile Strength     | Yield strength       | Elongation |
|                               | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> ) | %          |
|                               | 87,000 psi           | 57,000 psi           | 34%        |