SUPRAMIG® HD
THE NEXT DIMENSION IN MAG WIRE

REDUCE YOUR WELDING OPERATING COST BY UP TO 50%

www.lincolnelectriceurope.com
FASTER ARC ESTABLISHMENT

Arc establishment comparison of new engineered premium wire against competition – clearly demonstrating faster arc establishment.

USER ADVANTAGES:
- Reduced ignition spatters
- Reduced start defects such as cold lap, porosities
- Stable arc while welding

LESS SPATTER

The excellent starting behavior minimizes the level of spatter in intensive short weld designs and reduces dressing and reworking.

NORMALIZED SPATTER %

USER ADVANTAGES:
- No components to rework
- Reduced change over/nozzle cleaning cycles
- Reduced jig and tools cleaning frequency
- Improved life of contact tip and nozzles and consistent gas coverage

Arc Strike 120 ms 560 ms

5 TIMES FASTER FULLY ESTABLISHED ARC

WEIGHT SPATTER/WELDWEIGHT (%)

20 TIMES LESS SPATTER

Competitor 1 Competitor 2 Competitor 3 SUPRAMIG HD

COMPETITOR

SUPRAMIG HD

SUPRAMIG® HD, THE NEXT DIMENSION IN PREMIUM MAG WIRE.

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Lincoln Supramig™ product

Typical competitive product

**MINIMAL SILICATE ISLANDS**

**AREA OF SILICATE ISLANDS**

![Graph showing minimal silicate islands](image)

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>AREA OF SILICATE ISLANDS</th>
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</thead>
<tbody>
<tr>
<td>Competitor 1</td>
<td>15%</td>
</tr>
<tr>
<td>Competitor 2</td>
<td>10%</td>
</tr>
<tr>
<td>Competitor 3</td>
<td>6%</td>
</tr>
<tr>
<td>SUPRAMIG HD</td>
<td>5%</td>
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</table>

**USER ADVANTAGES:**
- Welds ready for painting/coating or surface treatment
- No rework
- No inter-run cleaning in multipass welding

**SMOOTHER AND CONSISTENT FEEDING**

![Graph showing smoother and consistent feeding](image)

**USER ADVANTAGES:**
- High speed feeding
- Reduced contact tip wear
- Long distance feeding

**HIGHER DEPOSITION RATE**

![Graph showing higher deposition rate](image)

**USER ADVANTAGES:**
- Higher range parameters spray arc
- Increased deposition rate
- Shorter arc length → greater weld pool control
HIGHLY CONSISTENT WIRE PLACEMENT

Example of bad wire placement

Example of good wire placement

USER ADVANTAGES:
• Center tool repeatability → no programming/readjustment robot trajectory
• No defect due to wrong wire placement (burn through…)
• Allows higher travel speed → productivity gain

CONSISTENTLY DELIVERING THE SAME PREMIUM PRODUCT DAY AFTER DAY

BOOK AN APPOINTMENT NOW!

Do you want to improve your productivity and reduce your welding cost by up to 50%?

Please ask for an appointment in order to estimate your savings.
TODAY, IN THE ROBOTIC WELDING INDUSTRY THE MOST COMMON PROBLEMS ARE:

- FIRST PASS YIELD
- DOWN TIME
- RE-WORK OR DEFECT RATE
- PRODUCTION STOPS

TO SOLVE THESE ISSUES, LINCOLN ELECTRIC HAS DEVELOPED THE NEXT DIMENSION IN PREMIUM MAG WIRE.

SUPRAMIG® HD

- HIGHER DEPOSITION RATE
- FASTER ARC ESTABLISHMENT
- LESS SPATTER
- FEWER SILICATE ISLANDS
- MORE CONSISTENT WIRE PLACEMENT
- SMOOTHER AND CONSISTENT FEEDING

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CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric Holdings, Inc. is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers’ particular purpose is specifically disclaimed.

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