



A LINCOLN ELECTRIC COMPANY

THE HARRIS PRODUCTS GROUP

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Certificate of Compliance

Description: ECO Smart Flux Black Paste 250g

| | | |
|-----------------|--|------------------------------------|
| Ship to: | Date: | 11/16/2020 4:06:12PM |
| | Part Number: | ESF250PB |
| | P.O. Number: | |
| | Heat Number: | |
| Specifications: | AWS A5.31M/A5.31: 2012 FB3-C B AMS 3411 | Federal Specification O-F-499 Type |
| | EN 1045 FH 12 | |

Chemical Composition Limits* %

| | | | |
|-----------|--------------|------------|---------------------|
| Antimony | Cadmium | Silicon | Tin |
| Aluminum | Niobium (Cb) | Phosphorus | Tungsten |
| Bismuth | Hydrogen | Sulfur | Vanadium |
| Beryllium | Iron | Nickel | Zinc |
| Boron | Lead | Nitrogen | CeO2 |
| Carbon | Lithium | Silver | LaO2 |
| Chromium | Magnesium | Oxygen | ThO2 |
| Copper | Molybdenum | Tantalum | Remainder |
| Cobalt | Manganese | Titanium | Other |
| | | Zirconium | Ferrite (WRC FN) |

*Single values are maximum percentages unless otherwise noted.

This certificate of conformance confirms the above product meets the requirements for the listed specification and classification. Results are reported for the outcome of tests performed using typical material of that classification and does not provide results from a specific run, lot, or heat number.