

## HOW DOES BATCH MANAGEMENT WORK?

When you check in stock inventory in SAP, the Q2 Lot® number will be displayed.

**Stock Overview: Company Code/Plant/Storage Location/Batch**

Breakdown | New selection | ATP Quantity

Material: ED033950 .045 ULTRACORE 71A85 (M4) N 33#SF (Q2)  
 Material type: ZFIN LE FINISHED PRODUCTS  
 Unit of measure: LB Base unit of measure: LB

Distribution Channel 10: 27 PricBkTstdwBatchView  
 Distribution Channel 20: 27 PricBkTstdwBatchView  
 Distribution Channel 30: 27 PricBkTstdwBatchView

Cl/CC/Plant/SLoc/Batch D	Unrestricted use	Qual. inspection	Reserved
<b>Total</b>	<b>5,775.000</b>	<b>0.000</b>	<b>0.000</b>
US10 Lincoln Cleveland	5,775.000	0.000	0.000
2012 LE US Corporate	5,775.000	0.000	0.000
9000 FG Warehouse	5,775.000	0.000	0.000
SHIPPING			
1068B	5,775.000	0.000	0.000

Example: Q2 Lot® number 1068B has 5,775 lbs. in stock.

1. Go to [www.lincolnelectric.com](http://www.lincolnelectric.com).
2. Click on the Certificate Center located under the support tab.
3. Enter the Q2 Lot® number to view actual CMTR for this lot.
4. Place an order for a specific lot by identifying the particular lot on the Purchase Order, or by contacting order entry support.

**LINCOLN ELECTRIC**

**CERTIFIED MATERIAL TEST REPORT**

This is to certify that the following was manufactured under Lot Control per ANSI AS20.000. The following test information is for reference only. This report is in accordance with EN10028 Type 3.1 and ISO 10042-1.3.6.

The product tested herein was manufactured and supplied in accordance with the Quality System Program of The Lincoln Electric Co., Cleveland, Ohio, U.S.A., as outlined in our Quality Assurance Manual. The Quality System Program of The Lincoln Electric Co. has been approved by ASME and approved by NDTAC and is certified to ISO 9001.

**Test Conditions:**  
 Electrode size: 3/64"  
 Electrode polarity: DC+  
 Current (amps): 205  
 Arc Voltage (Volts): 27  
 Preheat (Temperature °C): 23 (71) 180 (350)  
 Heat Input (Arg. kJ/inch (2.54)) 1.8 (37)  
 Shielding Gas (flow): 70/14W / 20% CO<sub>2</sub>

**Mechanical Properties:** ANSI AS 20.000  
 \*Yield Strength, 2% offset method MPa (ksi) 680 (24) 400 MPa (58 ksi)  
 \*Tensile Strength MPa (ksi) 620 (22) 400 MPa (58 ksi)  
 \*Elongation % 27 25 % min.

**Impact Properties:**  
 Average: 112 (23)  
 Location @ -20°C (0-ksi, @ 30°F): 118, 119, 107 (24, 23), 27 Joules min (20 ft-lb min)

**Chemical composition (weight %):**  
 Carbon: 0.18 max.  
 Manganese: 1.40 max.  
 Silicon: 0.42 max.  
 Sulfur: 0.01 max.  
 Phosphorus: 0.01 max.  
 Chromium: 0.08 max.  
 Nickel: 0.02 max.  
 Molybdenum: 0.02 max.  
 Vanadium: 0.01 max.  
 Copper: 0.02 max.

**DIFFUSIBLE HYDROGEN:**  
 Location @ 3.2 inch (70%) wall (center): 5.8, 5.2, 5.5, 4.7, 5.2 Average: 5.0 (100) Max Average

**Final Weld Quality:**  
 WPS: 10088 3P 150/15 710 Accept  
 AWS: 10080 4P 150/15 710A Accept

This is to certify that the contents of this report are correct and accurate as contained in the records of The Lincoln Electric Company.

The strength and elongation properties reported here were obtained from tensile specimens actually aged at 180°C (350°F) for 48 hours.

Radiographic Test: Met Requirements  
 Test assembly conformed to ASTM A3M

Prepared by: [Signature] Date: 2/16/2011  
 Test Engineer: [Signature] Date: 2/16/2011  
 Test Technician: [Signature] Date: 2/16/2011

Note: The recording of data, figures or fraudulent statements or entries on this document may be punished as a felony under Federal Statutes including Federal Law, Title 18, Chapter 47.

## Batch Managed Inventory

The Batch Managed Inventory Portfolio will focus on the industries with stringent lot control and test requirements, such as nuclear, power generation, offshore, and process piping.

Many of the products in this program have been modified from the original formulation to meet critical requirements of specific industries. Batch Managed Inventory makes the products more affordable due to larger product runs.

Example: Products with an "N" in the product name have modified chemical composition and/or mechanical properties in the as-welded or stress relieved condition to meet (but not limited to) specific requirements for the nuclear industry.

### CUSTOMER ASSISTANCE POLICY

The Lincoln Electric Company 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.

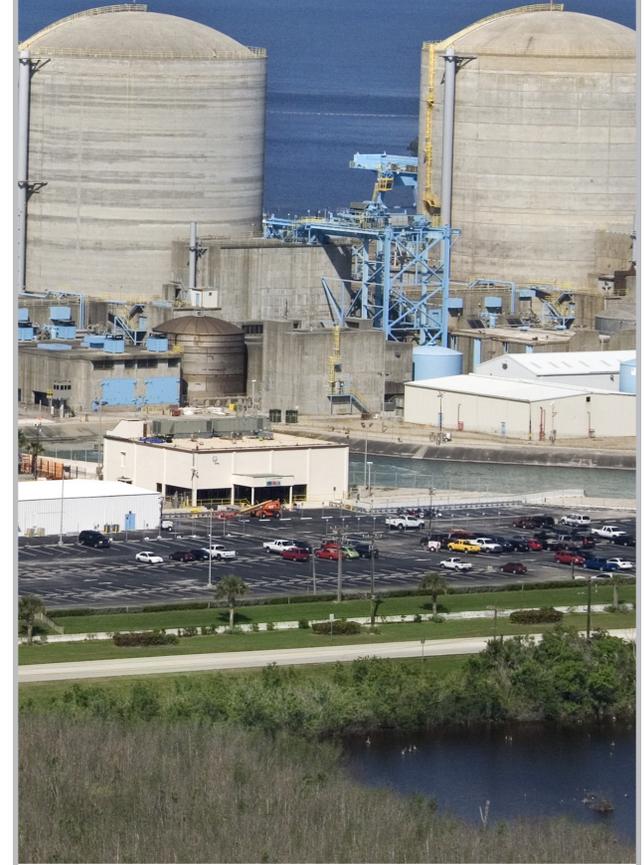
Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.



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## Batch Managed Inventory It's That Easy!



[www.lincolnelectric.com](http://www.lincolnelectric.com)



## WHAT IS BATCH MANAGED INVENTORY?



This specially handled inventory includes lot controlled and tested products with full traceability throughout the manufacturing process. All batch managed products have actual certified material test reports (CMTR) for each Q2 Lot® number. Q2 Lot® certificates can be downloaded from the Certificate Center on the Lincoln Electric website.

SAP functionality gives you the ability to view and manage inventory by Q2 Lot® number for batch managed products. You can view inventory by lot number, preview the CMTR's, order a specific lot of material, as well as order a single or multiple lots of material that best meet your application requirements.

## BATCH MANAGED INVENTORY PRODUCTS LIST

Lincoln Electric's Batch Managed Inventory Program includes a complete portfolio of Q2 Lot® products: stick electrodes, MIG wires, cut lengths, orbital TIG and flux-cored wires.

- EXCALIBUR®
- SUPERARC®
- BLUE MAX®
- LINCOLN®
- ULTRACORE®



### Q2 LOT® - BATCH MANAGED INVENTORY

Product Description	AWS Classification	Product Number	Diameter in. (mm)	Packaging
Excalibur® 7018 MR® N	E7018H4R	ED033940	3/32 (2.4)	8 lb. EO (24 lb. CT)
Excalibur® 7018 MR® N	E7018H4R	ED033838	1/8 (3.2)	10 lb. EO (30 lb. CT)
Excalibur® 7018 MR® N	E7018H4R	ED033839	5/32 (4.0)	10 lb. EO (30 lb. CT)
SuperArc® Orbital TIG L-52 N	ER70S-2	ED033947	0.035 (0.9)	2 lb. SP (8 lb. CT)
SuperArc® Orbital TIG L-52 N	ER70S-2	ED033948	0.035 (0.9)	10 lb. SP
SuperArc® Orbital TIG L-56® N	ER70S-6	ED033840	0.035 (0.9)	2 lb. SP (8 lb. CT)
SuperArc® Orbital TIG L-56® N	ER70S-6	ED033841	0.035 (0.9)	10 lb. SP
SuperArc® L-56® N	ER70S-6	ED033842	0.035 (0.9)	33 lb. SP
SuperArc® L-56® N	ER70S-6	ED033843	0.045 (1.1)	33 lb. SP
SuperArc® LA-75	ER80S-Ni1	ED033949	0.035 (0.9)	33 lb. SP
UltraCore® 71A85	E71T-1M-H8, E71T-9M-H8	ED033950	0.045 (1.1)	33 lb. SP
UltraCore® 71A85	E71T-1M-H8, E71T-9M-H8	ED033951	1/16 (1.6)	33 lb. SP
Lincoln® ER70S-2	ER70S-2	ED033952	1/16 (1.6)	10 lb. CT
Lincoln® ER70S-2	ER70S-2	ED033953	3/32 (2.4)	10 lb. CT
Lincoln® ER70S-2	ER70S-2	ED033954	1/8 (3.2)	10 lb. CT
Blue Max® MIG 308L N	ER308/ER308L	ED033848	0.035 (0.9)	33 lb. SSP
Blue Max® MIG 308L N	ER308/ER308L	ED033849	0.045 (1.1)	33 lb. SSP
Blue Max® MIG 309L N	ER309/ER309L	ED033850	0.035 (0.9)	33 lb. SSP
Blue Max® MIG 309L N	ER309/ER309L	ED033851	0.045 (1.1)	33 lb. SSP
Blue Max® MIG 316L N	ER316/ER316L	ED033852	0.035 (0.9)	33 lb. SSP
Blue Max® MIG 316L N	ER316/ER316L	ED033853	0.045 (1.1)	33 lb. SSP
Lincoln® ER308/308L N	ER308, ER308L	ED033854	3/32 (2.4)	10 lb. TB (30 lb. CT)
Lincoln® ER308/308L N	ER308, ER308L	ED033855	1/8 (3.2)	10 lb. TB (30 lb. CT)
Lincoln® ER309/309L N	ER309, ER309L	ED033856	3/32 (2.4)	10 lb. TB (30 lb. CT)
Lincoln® ER309/309L N	ER309, ER309L	ED033857	1/8 (3.2)	10 lb. TB (30 lb. CT)
Blue Max® LNM 4462 N	ER2209	ED033955	0.035 (0.9)	33 lb. SP
Blue Max® LNM 4462 N	ER2209	ED033956	0.045 (1.1)	33 lb. SP
Blue Max® LNT 4462 N	ER2209	ED033957	3/32 (2.4)	10 lb. TB (30 lb. CT)
Blue Max® LNT 4462 N	ER2209	ED033958	1/8 (3.2)	10 lb. TB (30 lb. CT)