



# OUTERSHIELD® MC710RF-H

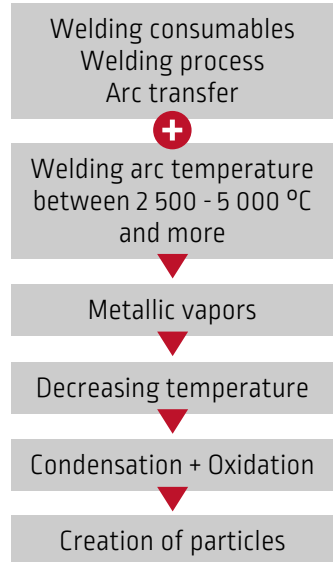
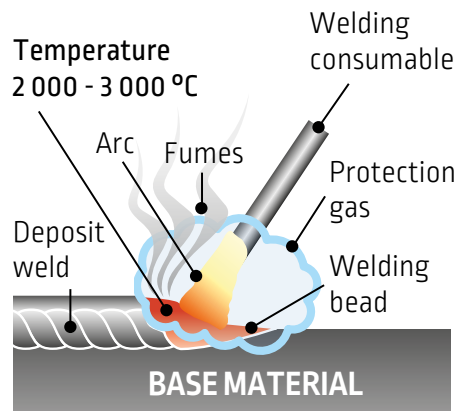
TO HELP REDUCE YOUR WELDERS' EXPOSURE TO FUME

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**LINCOLN**<sup>®</sup>  
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THE WELDING EXPERTS<sup>®</sup>

# WHERE ARE THE FUMES COMING FROM?

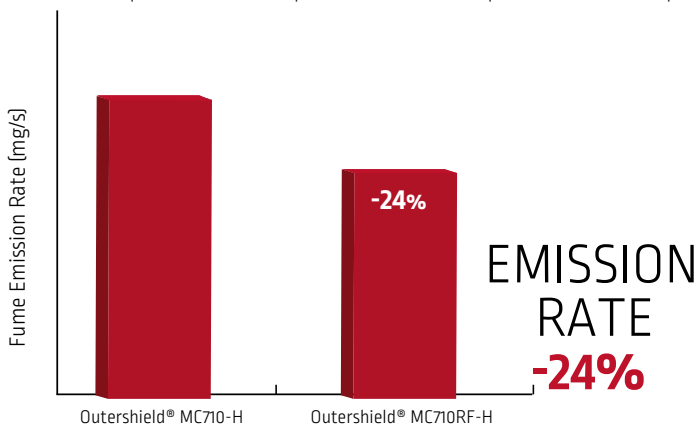
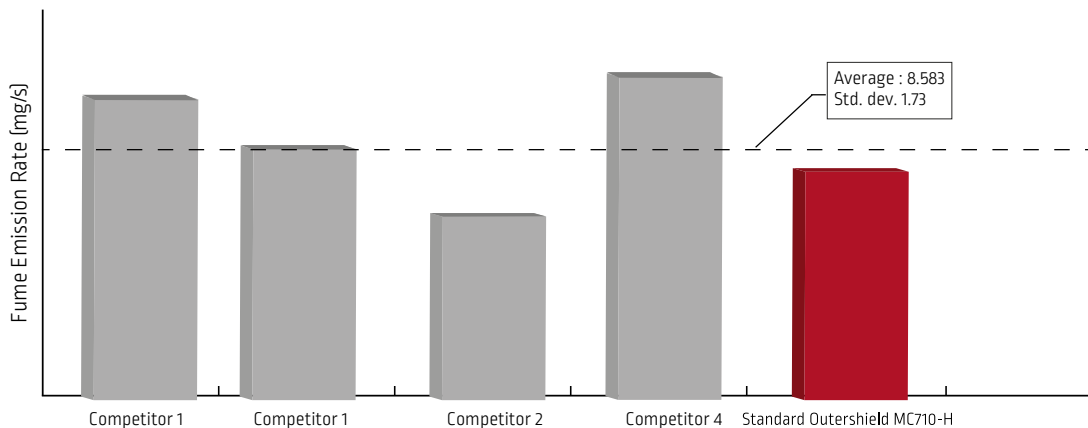
Welding fumes are essentially coming from the consumables as well as the type of mode transfer and the welding process.



# WHY ARE WELDING FUMES BECOMING A MAJOR ISSUE AT WELDING WORKSHOPS?

Manufacturers have a number of options in choosing optimal welding consumable to weld with optimum productivity and lower emission of hazardous substances. Continuing trend towards the reduction of welder exposures to welding fumes is observed. Welding fumes containing hazardous dust particles are controlled and suppliers of welding consumables have to supply information on Fume Emission Rate (FER) and/or chemical composition.”

## FUME EMISSION LEVEL (MG/S)



PERFORMANCE  
SIMILAR IN PA/PB/1F/1G &  
BETTER IN POSITIONAL WELDING

# OUTERSHIELD® MC710RF-H

TO HELP REDUCE YOUR WELDERS' EXPOSURE TO FUME

## WELDABILITY

- Excellent arc characteristics give outstanding operator appeal
- Very few silicates, virtually no spatter, fast travel speed, excellent wire feeding
- Superior on scaled plate, good resistance to porosity

## PRODUCTIVITY

- Very good mechanical properties (CVN >47) at -30°C

## LOWER FUME EMISSION RATE

- 24% reduction in Fume Emission Rate (FER) comparing to Outershield® MC710-H
- FER : between 6 and 8 mg/s at most popular industrial welding parameters



 GET MORE DETAILS

# ONE OF THE LOWEST FUME GENERATING METAL CORED WIRES IN ITS CLASS

## SPECIFICATIONS

| CLASSIFICATIONS |                 | APPROVALS            | CHEMISTRY |      |     |       |      | MECHANICAL PROPERTIES |     |                |                  |       |
|-----------------|-----------------|----------------------|-----------|------|-----|-------|------|-----------------------|-----|----------------|------------------|-------|
| AWS A5.18       | EN ISO 17632-A  |                      | C         | Mn   | Si  | S     | P    | RP0.2                 | RM  | ELONGATION [%] | IMPACT ISO-V (J) |       |
|                 |                 |                      |           |      |     |       |      |                       |     |                | -20°C            | -60°C |
| E70C-6M H4      | T 46 3 M M 2 H5 | BV, ABS, DNV, GL, LR | 0.05      | 1.35 | 0.6 | 0.015 | 0.02 | 485                   | 570 | 26             | 90               | 60    |

## ORDERING INFORMATION

| ITEM NUMBER | Ø (MM) | WEIGHT & CONDITIONING |
|-------------|--------|-----------------------|
| 901384      | 1.2    | 200KG ACCUTRAK DRUM   |
| 901328      | 1.4    | 16KG B300 SPOOL       |
| 901314      | 1.6    | 16KG B300 SPOOL       |

# BEING PRESENT LOCALLY MAKES US MORE AWARE GLOBALLY

Benefit from the Market Leader

**120**  
YEARS OF EXPERIENCE



**160** ACTIVE IN 160  
COUNTRIES  
WORLDWIDE

**325**  
R&D ENGINEERS  
WORLDWIDE

**2.7**  
BILLION USD REVENUE

**42**  
SOLUTION  
CENTERS

**11 000**  
EMPLOYEES WORLDWIDE

-  Global Headquarters
-  Solution Centers

The operation of welding fume control equipment is affected by various factors including proper use and positioning of the equipment, maintenance of the equipment and the specific welding procedure and application involved. Worker exposure level should be checked upon installation and periodically thereafter to be certain it is within applicable PEL and ACGIH TLV limits.

#### CUSTOMER ASSISTANCE POLICY

The business of 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.

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