



# FILLER METAL SELECTOR GUIDE

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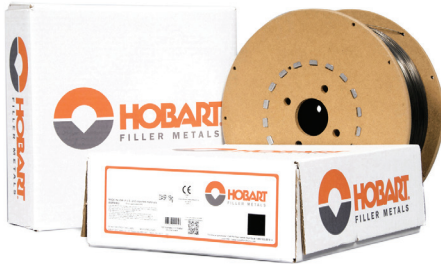


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# FABCOR® EDGE XP

METAL-CORED WIRE



## PRODUCT OVERVIEW

- AWS: A5.18: E70C-6M-H4
- Metal-Cored Wire
- Upgrade of popular FabCOR® Edge™
- Balanced arc characteristics
- Best in class weldability (including mill scale)
- Reduces post-weld cleaning and rework
- Market leading silicon control technology
- Excellent deposition rates

# WHY EDGE XP?

GET THE DETAILS



**SUPERIOR  
WELDABILITY**



**MAXIMIZE  
DEPOSITION**



**NEXT GEN  
SILICON  
CONTROL**

- Maximizes deposition rates
- Superior weldability
- Next gen silicon control technology
- Increased travel speed without sacrificing weldability
- Manufactured with steel melted and made in the USA
- Smooth arc characteristics
- Excellent bead appearance and contour when welding over mill scale
- Minimize the need for pre-weld cleaning
- Low heat input and improved gap-bridging

## RELEVANT MARKETS

- > Heavy Equipment
- > Structural Fab
- > Manufacturing
- > Truck & Trailer
- > High Volume
- > Government & Government Contractors

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                     | Part No.    | Select Arc                 | Lincoln                             | ESAB                      |
|-----------------------------|-------------|----------------------------|-------------------------------------|---------------------------|
| FabCOR Edge XP .045 33 SP   | S250612-029 | Select 70C6<br>.045 33 SP  | MetalShield MC-70<br>XLS .045 33 SP | COREWELD 70<br>.045 33 SP |
| FabCOR Edge XP .045 50 SP   | S250612-027 | Select 70C6<br>.045 50 SP  | MetalShield MC-70<br>XLS .045 50 SP |                           |
| FabCOR Edge XP .045 500 DR  | S250612-050 | Select 70C6<br>.045 500 DR |                                     |                           |
| FabCOR Edge XP .045 1000 DR | S250612-058 |                            |                                     |                           |
| FabCOR Edge XP .052 33 SP   | S250615-029 | Select 70C6<br>.052 33 SP  | MetalShield MC-70<br>XLS .052 33 SP | COREWELD 70<br>.052 33 SP |
| FabCOR Edge XP .052 50 SP   | S250615-027 | Select 70C6<br>.052 50 SP  | MetalShield MC-70<br>XLS .052 50 SP |                           |
| FabCOR Edge XP .052 500 DR  | S250615-050 | Select 70C6<br>.052 500 DR |                                     |                           |
| FabCOR Edge XP .052 1000 DR | S250615-058 |                            |                                     |                           |
| FabCOR Edge XP 1/16 33 SP   | S250619-029 | Select 70C6<br>1/16 33 SP  | MetalShield MC-70<br>XLS 1/16 33 SP | COREWELD 70<br>1/16 33 SP |
| FabCOR Edge XP 1/16 50 SP   | S250619-027 | Select 70C6<br>1/16 50 SP  | MetalShield MC-70<br>XLS 1/16 50 SP |                           |
| FabCOR Edge XP 1/16 1000 DR | S250619-058 | Select 70C6<br>1/16 500 DR |                                     |                           |

# FABCOR® 86R

METAL-CORED WIRE (Gas-Shielded)



## PRODUCT OVERVIEW

- AWS: A5.18: E70C-6M H4
- Gas-Shielded, Metal-Powder, Metal-Cored Wire
- High deposition rates and efficiencies
- Virtually no slag coverage
- Smooth Arc Characteristics
- Low smoke and spatter levels
- Low diffusible hydrogen weld deposit
- Excellent for both CV and pulsed welding

# WHY 86R?

GET THE DETAILS



ROBOTIC  
COMPATIBLE



MAXIMIZE  
DEPOSITION



HIGH  
PERFORMANCE

- Improves productivity
- Maximizes deposition and efficiency
- Excellent for robotic welding
- Low risk of hydrogen induced cracking
- Increased travel speed
- Improved operator appeal
- Minimizes risk of hydrogen-induced cracking
- Manufactured with steel melted and made in the USA

## RELEVANT MARKETS

- > Heavy Equipment
- > Structural Fab
- > Manufacturing
- > Truck & Trailer
- > High Volume
- > Government & Government Contractors

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                 | Part No.    | Select Arc                 | Lincoln                        | ESAB                      |
|-------------------------|-------------|----------------------------|--------------------------------|---------------------------|
| FabCOR 86R .045 33 SP   | S249412-029 | Select 70C6<br>.045 33 SP  | MetalShield MC6<br>.045 33 SP  | COREWELD 70<br>.045 33 SP |
| FabCOR 86R .045 50 SP   | S249412-027 | Select 70C6<br>.045 50 SP  | MetalShield MC6<br>.045 50 SP  |                           |
| FabCOR 86R .045 500 DR  | S249412-050 | Select 70C6<br>.045 500 DR | MetalShield MC6<br>.045 500 DR |                           |
| FabCOR 86R .045 1000 DR | S249412-058 |                            |                                |                           |
| FabCOR 86R .052 33 SP   | S249415-029 | Select 70C6<br>.052 33 SP  | MetalShield MC6<br>.052 33 SP  | COREWELD 70<br>.052 33 SP |
| FabCOR 86R .052 50 SP   | S249415-027 | Select 70C6<br>.052 50 SP  | MetalShield MC6<br>.052 50 SP  |                           |
| FabCOR 86R .052 500 DR  | S249415-050 | Select 70C6<br>.052 500 DR | MetalShield MC6<br>.052 500 DR |                           |
| FabCOR 86R .052 1000 DR | S249415-058 |                            |                                |                           |
| FabCOR 86R 1/16 33 SP   | S249419-029 | Select 70C6<br>1/16 33 SP  | MetalShield MC6<br>1/16 33 SP  | COREWELD 70<br>1/16 33 SP |
| FabCOR 86R 1/16 50 SP   | S249419-027 | Select 70C6<br>1/16 50 SP  | MetalShield MC6<br>1/16 50 SP  |                           |
| FabCOR 86R 1/16 1000 DR | S249419-058 | Select 70C6<br>1/16 500 DR |                                |                           |

# FABCOR<sup>®</sup> EDGE<sup>™</sup> Ni1

METAL-CORED WIRE (Gas-Shielded)



## PRODUCT OVERVIEW

- AWS: A5.28: E80C-Ni1 H4
- Gas-Shielded, Metal-Powder, Metal-Cored Wire
- Higher deposition rates and travel speeds than solid wire
- Virtually no silicon deposits at weld bead toe lines
- Good impact toughness at low temperature
- Can be used in applications requiring toughness at sub-zero temperatures

# WHY EDGE Ni1?

GET THE DETAILS



SUB-ZERO  
COMPATIBLE



MINIMIZE  
CLEANUP



CRACK  
RESISTANCE

- High deposition rate and productivity
- Resists cracking
- Improves productivity
- No silicon deposits
- Reduces clean up-time
- Minimizes burn-through
- Manufactured with steel melted and made in the USA

## RELEVANT MARKETS

- > Castings
- > Equipment
- > Agriculture
- > Automotive
- > Railcar
- > Construction
- > Heavy Equipment
- > Mining
- > General Fab

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                      | Part No.    | Select Arc                | Lincoln                       | ESAB                      |
|------------------------------|-------------|---------------------------|-------------------------------|---------------------------|
| FabCOR Edge Ni1 .045 33 SP   | S279512-029 | Select 70C6<br>.045 33 SP | MetalShield MC6<br>.045 33 SP | COREWELD 70<br>.045 33 SP |
| FabCOR Edge Ni1 .045 50 SP   | S279512-027 | Select 70C6<br>.045 50 SP | MetalShield MC6<br>.045 50 SP |                           |
| FabCOR Edge Ni1 .045 1000 DR | S279512-058 |                           |                               |                           |
| FabcCOR Edge Ni1 .052 33 SP  | S279515-029 | Select 70C6<br>.052 33 SP | MetalShield MC6<br>.052 33 SP | COREWELD 70<br>.052 33 SP |
| FabCOR Edge Ni1 .052 1000 DR | S279515-058 |                           |                               |                           |
| FabCOR Edge Ni1 1/16 33 SP   | S279519-029 | Select 70C6<br>1/16 33 SP | MetalShield MC6<br>1/16 33 SP | COREWELD 70<br>1/16 33 SP |



# FABCO® TRIPLE 7™

FLUX-CORED WIRE (Gas-Shielded)



## PRODUCT OVERVIEW

- AWS: A5.20: E71T-1C/M H8, E71T-9C/M H8
- Gas-Shielded Flux Core Wire
- Exceptional puddle control in all positions
- Low spatter
- Effortless slag removal
- Reduces post-weld cleaning & rework
- Excellent weldability on mixed gas and 100% CO2
- Low hydrogen weld deposit

# WHY TRIPLE 7?

GET THE DETAILS



EXPANDED  
PROPERTIES



ENHANCED  
WELDABILITY



VERSATILITY

- FabCO® Triple 7™ now meets T-9 classification & is D1.8 approved.
- Market leading weldability on mixed gas— Also excels on CO2.
- Forgiving arc characteristics reduce wasted time, resources & rework
- Simplify your portfolio with a do-it-all flux core wire.
- Manufactured with steel melted & made in the USA.

## RELEVANT MARKETS

- > Railcar
- > Confab
- > Structural Steel
- > Marine
- > General Fab
- > Government & Government Contractors

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                    | Part No.    | Select Arc                | Lincoln                             | ESAB                              |
|----------------------------|-------------|---------------------------|-------------------------------------|-----------------------------------|
| Fabco Triple 7 .045 15 SP  | S246312-023 |                           | UltraCore 71A75<br>Dual .045 15 SP  |                                   |
| Fabco Triple 7 .045 33 SP  | S246312-029 | Select 727<br>.045 33 SP  | UltraCore 71A75<br>Dual .045 33 SP  | Dual Shield 710X-M<br>.045 33 SP  |
| Fabco Triple 7 .045 50 SP  | S246312-027 | Select 727<br>.045 50 SP  | UltraCore 71A75<br>Dual .045 50 SP  |                                   |
| Fabco Triple 7 .045 500 DR | S246312-050 | Select 727<br>.045 500 DR |                                     |                                   |
| Fabco Triple 7 .052 15 SP  | S246315-023 |                           | UltraCore 71A75<br>Dual .052 15 SP  |                                   |
| Fabco Triple 7 .052 33 SP  | S246315-029 | Select 727<br>.052 33 SP  | UltraCore 71A75<br>Dual .052 33 SP  | Dual Shield 710X-M<br>.052 33 SP  |
| Fabco Triple 7 .052 50 SP  | S246315-027 |                           | UltraCore 71A75<br>Dual .052 50 SP  |                                   |
| Fabco Triple 7 .052 500 DR | S246315-050 | Select 727<br>.052 500 DR | UltraCore 71A75<br>Dual .052 500 DR | Dual Shield 710X-M<br>.052 600 DR |
| Fabco Triple 7 1/16 15 SP  | S246319-023 |                           |                                     |                                   |
| Fabco Triple 7 1/16 33 SP  | S246319-029 | Select 727<br>1/16 33 SP  | UltraCore 71A75<br>Dual 1/16 33 SP  | Dual Shield 710X-M<br>1/16 33 SP  |
| Fabco Triple 7 1/16 50 SP  | S246319-027 | Select 727<br>1/16 50 SP  | UltraCore 71A75<br>Dual 1/16 50 SP  | Dual Shield 710X-M<br>1/16 50 SP  |
| Fabco Triple 7 1/16 60 CL  | S246319-002 | Select 727<br>1/16 60 CL  |                                     | Dual Shield 710X-M<br>1/16 60 CL  |
| Fabco Triple 7 1/16 600 DR | S246319-056 | Select 727<br>1/16 600 DR | UltraCore 71A75<br>Dual 1/16 500 DR | Dual Shield 710X-M<br>1/16 600 DR |

# FABCO® EXCEL-ARC™ 71

FLUX-CORED WIRE (Gas-Shielded)



## PRODUCT OVERVIEW

- AWS: A5.20: E71T-1C/M H8, E71T-9C/M H8
- Gas-Shielded Flux Core Wire
- Fast-freezing slag
- Easy slag removal
- Low fumes and spatter
- Good impact toughness
- Able to bridge poor fit-up without burn-through

# WHY EXCEL-ARC 71?

GET THE DETAILS



**CRACK  
RESISTANCE**



**MINIMIZE  
CLEANUP**



**WIDE  
PARAMETERS**

- Increases productivity by eliminating non-value arc-off activity
- Excels over wide range of parameters and gas compositions
- Crack resistant in severe applications
- Offers D1.8 approved diameters for seismic regions
- Minimizes risk of slag inclusions and cleanup
- Excellent out-of-position capability

## RELEVANT MARKETS

- > Shipbuilding
- > Structural Steel
- > Heavy Equipment
- > Offshore
- > Agriculture
- > General Fab
- > Mining
- > Paper

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                         | Part No.    | Select Arc                | Lincoln                     | ESAB                            |
|---------------------------------|-------------|---------------------------|-----------------------------|---------------------------------|
| Fabco Excel-Arc 71 .035 33 SP   | S247108-029 | Select 720<br>.035 33 SP  |                             |                                 |
| Fabco Excel-Arc 71 .045 15 SP   | S247112-023 |                           | UltraCore 71C<br>.045 15 SP | Dual Shield 710X<br>.045 15 SP  |
| Fabco Excel-Arc 71 .045 33 SP   | S247112-029 | Select 720<br>.045 33 SP  | UltraCore 71C<br>.045 33 SP | Dual Shield 710X<br>.045 33 SP  |
| Fabco Excel-Arc 71 .045 44 SP   | S247112-044 | Select 720<br>.045 44 SP  |                             |                                 |
| Fabco Excel-Arc 71 .045 500 XPK | S247112-050 | Select 720<br>.045 500 DR |                             |                                 |
| Fabco Excel-Arc 71 .052 15 SP   | S247115-023 |                           |                             | Dual Shield 710X<br>.052 15 SP  |
| Fabco Excel-Arc 71 .052 33 SP   | S247115-029 | Select 720<br>.052 33 SP  | UltraCore 71C<br>.052 33 SP |                                 |
| Fabco Excel-Arc 71 .052 50 SP   | S247115-027 |                           | UltraCore 71C<br>.052 50 SP |                                 |
| Fabco Excel-Arc 71 .052 600 XPK | S247115-056 |                           |                             | Dual Shield 710X<br>.052 600 DR |
| Fabco Excel-Arc 71 1/16 33 SP   | S247119-029 | Select 720<br>1/16 33 SP  | UltraCore 71C<br>1/16 33 SP | Dual Shield 710X<br>1/16 33 SP  |
| Fabco Excel-Arc 71 1/16 44 SP   | S247119-044 | Select 720<br>1/16 44 SP  |                             |                                 |
| Fabco Excel-Arc 71 1/16 50 SP   | S247119-027 | Select 720<br>1/16 50 SP  | UltraCore 71C<br>1/16 50 SP |                                 |
| Fabco Excel-Arc 71 1/16 60 CL   | S247119-002 | Select 720<br>1/16 60 CL  |                             | Dual Shield 710X<br>1/16 60 CL  |
| Fabco Excel-Arc 71 1/16 600 XPK | S247119-056 | Select 720<br>1/16 500 DR |                             | Dual Shield 710X<br>1/16 600 DR |

# FABSHIELD® XLR-8

FLUX-CORED WIRE (Self-Shielded)



## PRODUCT OVERVIEW

- AWS: A5.20: E71T-8JD-H8
- Self-Shielded Flux Core Wire
- Exceptional puddle control in all positions
- Low spatter
- Effortless slag removal
- Reduces post-weld cleaning & rework
- Low hydrogen weld deposit

# WHY XLR-8?

GET THE DETAILS



LOW  
HYDROGEN



CRITICAL  
APPLICATIONS



2X RATE  
DEPOSITION

- AWS D1.8 approved for seismic applications
- Large voltage window
- Excels in tough outdoor conditions and seismic applications
- Self-shielded wire with superior weldability and crack resistance (H8 hydrogen weld deposit)
- Offers double the deposition rate of a 7018 stick electrode

## RELEVANT MARKETS

- > Shipbuilding
- > Structural Steel
- > Bridge Construction
- > Offshore Rig Construction

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                      | Part No.    | Select Arc              | Lincoln                          | ESAB                       |
|------------------------------|-------------|-------------------------|----------------------------------|----------------------------|
| FabShield XLR-8 .072 20 VCSP | S225724-082 |                         | Innershield NR-232<br>.072 25 SP | Coreshield 8<br>.072 25 SP |
| FabShield XLR-8 .072 33 VCSP | S225724-053 |                         | Innershield NR-232<br>.072 25 SP | Coreshield 8<br>.072 25 SP |
| FabShield XLR-8 .072 50 VCL  | S225724-V14 |                         | Innershield NR-232<br>.072 50 CL | Coreshield 8<br>.072 50 SP |
| FabShield XLR-8 1/16 12 VCSP | S225719-079 |                         |                                  | Coreshield 8<br>1/16 15 SP |
| FabShield XLR-8 1/16 20 VCSP | S225719-082 |                         |                                  | Coreshield 8<br>1/16 20 SP |
| FabShield XLR-8 1/16 33 VCSP | S225719-053 |                         |                                  | Coreshield 8<br>1/16 25 SP |
| FabShield XLR-8 1/16 33 VCSP | S225719-067 |                         |                                  | Coreshield 8<br>1/16 25 SP |
| FabShield XLR-8 5/64 20 VCSP | S225725-082 | Select 78<br>5/64 25 SP | Innershield NR-232<br>5/64 25 SP | Coreshield 8<br>5/64 20 SP |
| FabShield XLR-8 5/64 33 VCSP | S225725-053 | Select 78<br>5/64 25 SP | Innershield NR-232<br>5/64 25 SP | Coreshield 8<br>5/64 25 SP |

# FABCO® TR-70

FLUX-CORED WIRE (Gas-Shielded)



## PRODUCT OVERVIEW

- AWS: A5.20: E70T-1C H8/-9C H8
- Gas-Shielded Flux Core Wire
- Low fume generation rate
- High deposition rates
- Low fumes and spatter
- Flat bead profile with fillet welds
- Easy slag removal

# WHY TR-70?

GET THE DETAILS



LOW FUME  
& SPATTER



HIGH  
DEPOSITION



STICK-OUT  
VARIATION  
TOLERANCE

- High performance over a wide range of amperage/voltage
- High tolerant to changes in stick-out
- Ideal choice for deep groove applications
- Designed for high deposition and efficiency in flat and horizontal positions
- Minimizes risk of cracking in restrained joints, thick section, and critical applications

## RELEVANT MARKETS

- > Shipbuilding
- > Offshore
- > Mining
- > Agriculture
- > Plate Fab
- > Construction
- > Structural Applications
- > Heavy Equipment
- > Earth Moving Equipment

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                   | Part No.    | Select Arc                 | Lincoln                      | ESAB                            |
|---------------------------|-------------|----------------------------|------------------------------|---------------------------------|
| Fabco TR-70 .045 33 SP    | S247012-029 | Select 70TR<br>.045 33 SP  |                              |                                 |
| Fabco TR-70 1/16 33 SP    | S247019-029 | Select 70TR<br>1/16 33 SP  |                              | Dual Shield 700X<br>1/16 33 SP  |
| Fabco TR-70 1/16 60 CL    | S247019-002 | Select 70TR<br>1/16 60 CL  | UltraCore 70C<br>1/16 50 CL  | Dual Shield 700X<br>1/16 60 CL  |
| Fabco TR-70 1/16 600 XPK  | S247019-056 |                            | UltraCore 70C<br>1/16 500 DR |                                 |
| Fabco TR-70 3/32 60 CL    | S247029-002 | Select 70TR<br>3/32 60 CL  | UltraCore 70C<br>3/32 50 CL  | Dual Shield 700X<br>3/32 60 CL  |
| Fabco TR-70 3/32 600 DR   | S247029-008 | Select 70TR<br>3/32 500 DR | UltraCore 70C<br>3/32 500 DR |                                 |
| Fabco TR-70 3/32 800 RLFL | S247029-069 |                            |                              | Dual Shield 700X<br>3/32 850 RL |
| Fabco TR-70 5/64 50 SP    | S247025-027 |                            | UltraCore 70C<br>5/64 50 CL  |                                 |
| Fabco TR-70 5/64 60 CL    | S247025-002 | Select 70TR<br>5/64 60 CL  | UltraCore 70C<br>5/64 50 CL  |                                 |
| Fabco TR-70 5/64 600 DR   | S247025-008 | Select 70TR<br>5/64 600 DR | UltraCore 70C<br>5/64 500 DR |                                 |



# FABCO® 811N1

FLUX-CORED WIRE (Gas-Shielded)



## PRODUCT OVERVIEW

- A5.29: E81T1-Ni1CJ H4/-Ni1MJ H4
- Gas-Shielded Flux Core Wire
- Fast-freezing slag
- Robust impact toughness
- Low spatter
- Excellent slag removal

# WHY 811N1?

GET THE DETAILS



LOW  
HYDROGEN



EXCELLENT  
OUT-OF-  
POSITION  
CAPABILITY



CRACK  
RESISTANCE

- Excellent out of position performance
- Low-hydrogen deposit
- Used in applications where low temperature notch toughness is required
- Can be used on weathering steels when color match is not required

## RELEVANT MARKETS

- > Weathering Steel
- > Earth Moving Equipment
- > Heavy Equipment
- > Mining
- > Pipeline Construction

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                | Part No.    | Select Arc                   | Lincoln  | ESAB                                  |
|------------------------|-------------|------------------------------|--|---------------------------------------|
| Fabco 811N1 .045 33 SP | S283612-029 | Select 820-Ni1<br>.045 33 SP | UltraCore<br>81Ni1A75-H/<br>81Ni1C-H<br>.045 33 SP | Dual Shield<br>810X-Ni1<br>.045 33 SP |
| Fabco 811N1 1/16 60 CL | S283619-002 | Select 820-Ni1<br>1/16 60 CL |  | Dual Shield<br>810X-Ni1<br>1/16 60 CL |
| Fabco 811N1 1/16 50 CP | S283619-027 | Select 820-Ni1<br>1/16 50 SP | UltraCore<br>81Ni1C-H<br>1/16 50 SP                |                                       |
| Fabco 811N1 1/16 33 SP | S283619-029 | Select 820-Ni1<br>1/16 33 SP | UltraCore<br>81Ni1A75-H/<br>81Ni1C-H<br>1/16 33 SP | Dual Shield<br>810X-Ni1<br>1/16 33 SP |

# FABCO® XL-550

FLUX-CORED WIRE (Gas-Shielded)



## PRODUCT OVERVIEW

- A5.20: E71T-1CJ/-9CJ/-12CJ H4
- Gas-Shielded Flux Core Wire
- Fast-freezing slag
- Robust impact toughness
- Low spatter
- Excellent slag removal

# WHY XL-550?

GET THE DETAILS



LOW  
HYDROGEN



EXCELLENT  
OUT-OF-  
POSITION  
CAPABILITY



CRACK  
RESISTANCE

- Excellent out of position performance
- Low-hydrogen deposit
- Used in applications where low temperature notch toughness is required
- High deoxidizer formula

## RELEVANT MARKETS

- > Shipbuilding
- > Storage Vessels
- > Structural Steel
- > Offshore
- > Agriculture
- > Construction
- > Heavy Equipment
- > Mining
- > General Fabrication

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                   | Part No.    | Select Arc                       | Lincoln                      | ESAB                                      |
|---------------------------|-------------|----------------------------------|------------------------------|---|
| Fabco XL-550 .045 33 VCSP | S245112-053 | Select 720HP<br>.045 25 SP/33 SP | UltraCore 712C<br>.045 33 SP | Dual Shield II<br>71 Ultra<br>.045 33 PSP |
| Fabco XL-550 .052 33 VCSP | S245115-053 | Select 720HP<br>.052 25 WB/33 SP | UltraCore 712C<br>.052 33 SP | Dual Shield II<br>71 Ultra<br>.052 33 PSP |
| Fabco XL-550 1/16 33 SP   | S245119-029 | Select 720HP<br>1/16 25 WB/33 SP | UltraCore 712C<br>1/16 33 SP | Dual Shield II<br>71 Ultra<br>1/16 33 PSP |
| Fabco XL-550 1/16 60 CL   | S245119-002 | Select 720HP<br>1/16 60 CL       |                              | Dual Shield II<br>71 Ultra<br>1/16 60 CL  |

# FABCO® XL-525

FLUX-CORED WIRE (Gas-Shielded)



## PRODUCT OVERVIEW

- AWS: A5.20: E71T-1MJ/-9MJ/12MJ H8
- Gas-Shielded Flux Core Wire
- Low fume generation rates
- Fast-freezing slag
- Robust impact toughness
- Low spatter
- Excellent slag removal

# WHY XL-525?

GET THE DETAILS



ENHANCED  
WELDABILITY



EXCELLENT  
OUT-OF-  
POSITION  
CAPABILITY



CRACK  
RESISTANCE

- Excellent out of position performance
- Formulated to allow excellent impact values at lower temperatures
- Enhanced weldability

## RELEVANT MARKETS

- > Shipbuilding
- > Storage Vessels
- > Structural Steel
- > Mining
- > Agriculture
- > Construction
- > Heavy Equipment
- > General Fabrication

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                  | Part No.    | Select Arc               | Lincoln                        | ESAB                                      |
|--------------------------|-------------|--------------------------|--------------------------------|---|
| Fabco XL-525 .045 33 SP  | S283212-029 | Select 721<br>.045 33 SP | UltraCore 712A80<br>.045 33 SP | Dual Shield II<br>70 Ultra<br>.045 33 SP  |
| Fabco XL-525 .045 50 SP  | S283212-027 |                          | UltraCore 712A80<br>.045 50 SP |   |
| Fabco XL-525 .045 600 DR | S283212-056 |                          |                                |   |
| Fabco XL-525 .052 33 SP  | S283215-029 |                          | UltraCore 712A80<br>.052 33 SP | Dual Shield II<br>70 Ultra<br>.052 33 PSP |
| Fabco XL-525 1/16 60 CL  | S283219-002 |                          |                                | Dual Shield II<br>70 Ultra<br>1/16 60 CL  |
| Fabco XL-525 1/16 33 SP  | S283219-029 | Select 721<br>1/16 33 SP | UltraCore 712A80<br>1/16 33 SP | Dual Shield II<br>70 Ultra<br>1/16 33 PSP |

# HOBART® MAXALMIG® 4943

## ALUMINUM ELECTRODE



## PRODUCT OVERVIEW

- AWS: A5. 10: R4943/ER4943
- Aluminum/silicon filler alloy
- Low welding spatter and discoloration
- Moderate as-welded strengths
- Low ductility, formability, and lower toughness
- Dedicated 4943 chemical composition for optimal mechanical properties
- Superior surface quality

# WHY MAXALMIG 4943?

## GET THE DETAILS



HIGH  
STRENGTH



HOBART  
EXCLUSIVE



DEDICATED  
COMPOSITION

- Higher welded tensile and shear strengths than 4043
- Provides options for post-weld heat treatment
- Eliminates the need for base metal dilution to produce higher as-welded tensile and yield strength
- Offers the same fluidity, low shrinkage and crack sensitivity, and corrosion resistance of 4043
- Exclusively produced by Hobart with patented technology
- ✦ Buy America conversations ongoing

## RELEVANT MARKETS

- > Frames
  - Automotive
  - Motorcycle
  - Bicycle
- > Shipbuilding
- > Aerospace
- > Trailer
- > Recreational Boat
- > General Fab

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                              | Part No.                 | Alcotec                                 | Lincoln                            |
|--------------------------------------|--------------------------|---|------------------------------------|
| MaxalMig 4943 .035 1lb Spool         | 494303504                | ALMIGWELD 4043<br>.035 1lb Spool        | SuperGlaze 4043<br>.035 1lb Spool  |
| MaxalMig 4943 .047 16lb Basket/Spool | 494304712/<br>494304712P | ALMIGWELD 4043<br>.047 16lb Wire Basket |                                    |
| MaxalMig 4943 .047 22lb Spool        | 494394712P22             | ALMIGWELD 4043<br>.047 20lb Spool       | SuperGlaze 4043<br>3/64 20lb Spool |
| MaxalMig 4943 .047 300lb Drum        | 494304723                | ALMIGWELD 4043<br>.047 311lb Drum       | SuperGlaze 4043<br>3/64 300lb Box  |
| MaxalMig 4943 .062 16lb Basket/Spool | 494306212/<br>494306212P | ALMIGWELD 4043<br>.062 16lb Wire Basket |                                    |
| MaxalMig 4943 .062 22lb Spool        | 494306212P22             | ALMIGWELD 4043<br>.062 20lb Spool       | SuperGlaze 4043<br>1/16 20lb Spool |
| MaxalMig 4943 .094 TIG 10lb          | 494309470                | ALTIGWELD 4043<br>.094 TIG 10lb         | SuperGlaze 4043<br>3/32 TIG 10lb   |
| MaxalMig 4943 .125 TIG 10lb          | 494312570                | ALTIGWELD 4043<br>.125 TIG 10lb         | SuperGlaze 4043<br>1/8 TIG 10lb    |



# HOBART® MAXALMIG® 5356

## ALUMINUM ELECTRODE



### PRODUCT OVERVIEW

- AWS: A5. 10: ER5356, R5356
- Aluminum/magnesium alloy
- High strength: 38 ksi typical
- Moderate ductility/formability
- Lower electrical conductivity and thermal conductivity

# WHY MAXALMIG 5356?

## GET THE DETAILS



**LOWER  
CONDUCTIVITY**



**MODERATE  
DUCTILITY**



**HIGH  
STRENGTH**

- Higher tensile strength and toughness
- Ideal for 5xxx and 6xxx series base metals
- Excellent shear strength
- Anodizes bright for color matching
- Excellent feeding and welding characteristics

### RELEVANT MARKETS

- > Construction
- > Small Fishing Boat
- > Trailer
- > Cryogenic Applications

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                              | Part No.                 | Alcotec                                 | Lincoln                            |
|--------------------------------------|--------------------------|---|------------------------------------|
| MaxalMig 5356 .035 1lb Spool         | 535603504                | ALMIGWELD 5356<br>.035 1lb Spool        | SuperGlaze 5356<br>.035 1lb Spool  |
| MaxalMig 5356 .047 16lb Basket/Spool | 535604712/<br>535604712P | ALMIGWELD 5356<br>.047 16lb Wire Basket |                                    |
| MaxalMig 5356 .047 22lb Spool        | 535694712P22             | ALMIGWELD 5356<br>.047 20lb Spool       | SuperGlaze 5356<br>3/64 20lb Spool |
| MaxalMig 5356 .047 300lb Drum        | 535604723                | ALMIGWELD 5356<br>.047 311lb Drum       | SuperGlaze 5356<br>3/64 300lb Box  |
| MaxalMig 5356 .062 16lb Basket/Spool | 535606212/<br>535606212P | ALMIGWELD 5356<br>.062 16lb Wire Basket |                                    |
| MaxalMig 5356 .062 22lb Spool        | 535606212P22             | ALMIGWELD 5356<br>.062 20lb Spool       | SuperGlaze 5356<br>1/16 20lb Spool |
| MaxalMig 5356 .094 TIG 10lb          | 535609470                | ALTIGWELD 5356<br>.094 TIG 10lb         | SuperGlaze 5356<br>3/32 TIG 10lb   |
| MaxalMig 5356 .125 TIG 10lb          | 535612570                | ALTIGWELD 5356<br>.125 TIG 10lb         | SuperGlaze 5356<br>1/8 TIG 10lb    |

# HOBART® MAXALTIG® 4043

## ALUMINUM ELECTRODE



## PRODUCT OVERVIEW

- AWS: A5. 10: ER4043, R4043
- Aluminum/silicon filler alloy
- Moderate strength: 28 ksi typical
- Low melting temperature/high fluidity
- Low welding smut and discoloration
- Low ductility, formability, and lower toughness
- Moderate electrical conductivity and thermal conductivity
- Excellent corrosion resistance

# WHY MAXALTIG 4043?

## GET THE DETAILS



**CORROSION  
RESISTANCE**



**LOW  
SHRINKAGE**



**LOW MELT  
TEMPERATURE**

- Low shrinkage rate/reduced distortion
- Low hot cracking sensitivity in most applications
- High weld pool fluidity
- Low solidification shrinkage
- Well suited for elevated service conditions

## RELEVANT MARKETS

- > Automotive/ Motorcycle Frames
- > General Repair & Maintenance
- > Sports Products - Scooters/ Bicycles

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                              | Part No.                 | Alcotec                                 | Lincoln                            |
|--------------------------------------|--------------------------|---|------------------------------------|
| MaxalMig 4043 .035 1lb Spool         | 404303504                | ALMIGWELD 4043<br>.035 1lb Spool        | SuperGlaze 4043<br>.035 1lb Spool  |
| MaxalMig 4043 .047 16lb Basket/Spool | 404304712/<br>404304712P | ALMIGWELD 4043<br>.047 16lb Wire Basket |                                    |
| MaxalMig 4043 .047 22lb Spool        | 404394712P22             | ALMIGWELD 4043<br>.047 20lb Spool       | SuperGlaze 4043<br>3/64 20lb Spool |
| MaxalMig 4043 .047 300lb Drum        | 404304723                | ALMIGWELD 4043<br>.047 311lb Drum       | SuperGlaze 4043<br>3/64 300lb Box  |
| MaxalMig 4043 .062 16lb Basket/Spool | 404306212/<br>404305212P | ALMIGWELD 4043<br>.062 16lb Wire Basket |                                    |
| MaxalMig 4043 .062 22lb Spool        | 404306212P22             | ALMIGWELD 4043<br>.062 20lb Spool       | SuperGlaze 4043<br>1/16 20lb Spool |
| MaxalTig 4043 .094 10lb              | 404309470                | ALTIGWELD 4043<br>.094 TIG 10lb         | SuperGlaze 4043<br>3/32 TIG 10lb   |
| MaxalTig 4043 .125 10lb              | 404312570                | ALTIGWELD 4043<br>.125 TIG 10lb         | SuperGlaze 4043<br>1/8 TIG 10lb    |

# HOBART 418

## STICK ELECTRODE



## PRODUCT OVERVIEW

- AWS: ER7018 H4R, E7018-1 H4R
- General purpose, low hydrogen electrode
- Easy to use in all welding positions
- Excellent arc stability
- Low spatter levels
- Easy slag removal

# WHY 418?

## GET THE DETAILS



ARC STABILITY



MINIMAL SPATTER



BETTER WETTING

- Market leading weldability
- Forgiving arc characteristics make it ideal for welders of all skill levels
- Minimal spatter and effortless slag removal
- Easier starts and better wetting action than other leading competitors

## RELEVANT MARKETS

- > Steel Structure
- > Mining
- > Pipe/Pipeline
- > Railcar
- > Heavy Equipment
- > Infrastructure
- > Offshore
- > Shipbuilding
- > General Fab
- > Construction
- > Low Alloy Structure
- > Boiler/Pressure Vessel
- > Alloy & High Carbon Castings
- > Power & Petrochemical Plants

# PRODUCT CROSS REFERENCE

|                         |             | EQUIVALENT ALTERNATIVES |                                    |                                |
|-------------------------|-------------|-------------------------|------------------------------------|--------------------------------|
| Product                 | Part No.    | Washington Alloy        | Lincoln                            | ESAB                           |
| Hobart 418 1/4 50 CAN   | S119981-035 | E7018-1<br>1/8 50 CAN   | Excalibur 7018-1 MR<br>1/4 50 CAN  |                                |
| Hobart 418 1/8 10 CAN   | S119944-033 |                         | Excalibur 7018-1 MR<br>1/8 10 CAN  | Atom Arc 7018-1<br>1/8 10 CAN  |
| Hobart 418 1/8 10 PPAK  | S119944-089 | E7018-1<br>1/8 10 PPAK  |                                    |                                |
| Hobart 418 1/8 5 PPAK   | S119944-045 |                         |                                    |                                |
| Hobart 418 1/8 50 CAN   | S119944-035 |                         | Excalibur 7018-1 MR<br>1/8 50 CAN  | Atom Arc 7018-1<br>1/8 50 CAN  |
| Hobart 418 3/16 50 CAN  | S119958-035 |                         | Excalibur 7018-1 MR<br>3/16 50 CAN | Atom Arc 7018-1<br>3/16 50 CAN |
| Hobart 418 3/32 10 CAN  | S119932-033 |                         | Excalibur 7018-1 MR<br>3/32 10 CAN | Atom Arc 7018-1<br>3/32 10 CAN |
| Hobart 418 3/32 10 PPAK | S119932-089 | E7018-1<br>3/32 10 PPAK |                                    |                                |
| Hobart 418 3/32 5 PPAK  | S119932-045 |                         |                                    |                                |
| Hobart 418 3/32 50 CAN  | S119932-035 | E7018-1<br>3/32 50 CAN  | Excalibur 7018-1 MR<br>3/32 50 CAN | Atom Arc 7018-1<br>3/32 50 CAN |
| Hobart 418 5/32 10 CAN  | S119951-033 |                         |                                    | Atom Arc 7018-1<br>5/32 10 CAN |
| Hobart 418 5/32 10 PPAK | S119951-089 | E7018-1<br>5/32 10 PPAK |                                    |                                |
| Hobart 418 5/32 5 PPAK  | S119951-045 |                         |                                    |                                |
| Hobart 418 5/32 50 CAN  | S119951-035 | E7018-1<br>5/32 50 CAN  | Excalibur 7018-1 MR<br>5/32 50 CAN | Atom Arc 7018-1<br>5/32 50 CAN |

# QUANTUM ARC™ 6

SOLID WIRE



## PRODUCT OVERVIEW

- AWS: ER70S-6
- Solid Wire
- High in oxidizers
- Excellent feedability

# WHY QA-6?

GET THE DETAILS



CONSISTENT  
WELDABILITY



SMOOTH  
FEEDABILITY



ROBOTIC  
COMPATIBLE

- Consistent weldability even on rusty and oily material
- Excellent feedability through short/long gun cables
- Product consistency allows for extended consumable life
- Excellent for robotic, automatic and semi-automatic welding applications
- Wire feed speeds range from moderately slow to very fast

## RELEVANT MARKETS

- > Agriculture
- > Pressure Vessels
- > Pipe
- > Railcar
- > General Fab
- > Construction Equipment
- > Automotive Frame & Structure

# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                    | Part No.    | National Standard               | Lincoln                     | ESAB                       |
|----------------------------|-------------|---------------------------------|-----------------------------|----------------------------|
| Quantum Arc 6 .035 33 SR   | S307608-033 | Standard Arc S-6<br>.035 33 SR  | Superc L-56<br>.035 33 SR   | Spoolarc 86<br>.035 33 SR  |
| Quantum Arc 6 .035 45 FS   | S307608-085 | Standard Arc S-6<br>.035 45 FS  | Superc L-56<br>.035 33 FS   | Spoolarc 86<br>.035 44 FS  |
| Quantum Arc 6 .035 45 SR   | S307608-045 | Standard Arc S-6<br>.035 45 SR  | Superc L-56<br>.035 44 SR   |                            |
| Quantum Arc 6 .035 300 RRP | S307608-073 | Standard Arc S-6<br>.035 250 DR | Superc L-56<br>.035 250 DR  |                            |
| Quantum Arc 6 .035 600 RP  | S307608-011 | Standard Arc S-6<br>.035 500 DR | Superc L-56<br>.035 500 DR  | Spoolarc 86<br>.035 550 FS |
| Quantum Arc 6 .035 600 RRP | S307608-074 | Standard Arc S-6<br>.035 500 DR | Superc L-56<br>.035 500 DR  |                            |
| Quantum Arc 6 .035 950 RRP | S307608-070 | Standard Arc S-6<br>.035 900 DR | Superc L-56<br>.035 1000 DR | Spoolarc 86<br>.035 900 DR |
| Quantum Arc 6 .045 33 SR   | S307612-033 | Standard Arc S-6<br>.045 33 SR  | Superc L-56<br>.045 33 SR   | Spoolarc 86<br>.045 33 SR  |
| Quantum Arc 6 .045 45 FS   | S307612-085 | Standard Arc S-6<br>.045 45 FS  | Superc L-56<br>.045 44 FS   | Spoolarc 86<br>.045 44 FS  |
| Quantum Arc 6 .045 45 SR   | S307612-045 | Standard Arc S-6<br>.045 45 SR  | Superc L-56<br>.045 44 SR   |                            |
| Quantum Arc 6 .045 60 FS   | S307612-028 | Standard Arc S-6<br>.045 60 FS  | Superc L-56<br>.045 60 FS   | Spoolarc 86<br>.045 60 FS  |
| Quantum Arc 6 .045 300 RRP | S307612-073 | Standard Arc S-6<br>.045 250 DR | Superc L-56<br>.045 250 DR  |                            |
| Quantum Arc 6 .045 600 RP  | S307612-011 | Standard Arc S-6<br>.045 500 DR | Superc L-56<br>.045 500 DR  | Spoolarc 86<br>.045 550 DR |



# PRODUCT CROSS REFERENCE

## EQUIVALENT ALTERNATIVES

| Product                    | Part No.    | National Standard               | Lincoln                      | ESAB                       |
|----------------------------|-------------|---------------------------------|------------------------------|----------------------------|
| Quantum Arc 6 .045 600 RRP | S307612-074 | Standard Arc S-6<br>.045 500 DR | SupeArc L-56<br>.045 500 DR  | Spoolarc 86<br>.045 550 DR |
| Quantum Arc 6 .045 950 RRP | S307612-070 | Standard Arc S-6<br>.045 900 DR | SupeArc L-56<br>.045 1000 DR | Spoolarc 86<br>.045 900 DR |
| Quantum Arc 6 .052 45 SR   | S307615-045 | Standard Arc S-6<br>.052 45 SR  |                              |                            |
| Quantum Arc 6 .052 60 FS   | S307615-028 | Standard Arc S-6<br>.052 60 FS  | SupeArc L-56<br>.052 60 SP   | Spoolarc 86<br>.052 60 FS  |
| Quantum Arc 6 .052 300 RRP | S307615-073 |                                 | SupeArc L-56<br>.052 250 DR  |                            |
| Quantum Arc 6 .052 600 RRP | S307615-074 | Standard Arc S-6<br>.052 500 DR | SupeArc L-56<br>.052 500 DR  | Spoolarc 86<br>.052 550 DR |
| Quantum Arc 6 .052 950 RRP | S307615-070 | Standard Arc S-6<br>.052 900 DR | SupeArc L-56<br>.052 1000 DR | Spoolarc 86<br>.052 900 DR |



# TALK TO AN EXPERT

**P:** 1-800-532-2618

**E:** [applications.engineering@hobartbrothers.com](mailto:applications.engineering@hobartbrothers.com)



**THE HOBART  
ADVANTAGE**

# NOTES




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