



FILLER METAL SELECTOR GUIDE

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MILD STEEL METAL-CORE SELECTION

	FabCOR® 86R		FabCOR® Edge XP		FabCOR® Element XP		FabCOR® Elevate	
Productivity Up to 20% higher productivity than industry standard Solid Wire Solutions	✓		✓		✓		Up to 30% higher deposition rate ✓ Recommended vs Solid Wire	
Weldability Significant usability benefits for unskilled welders and tolerance to part variation vs. solid wire	✓ Recommended		✓ Recommended		✓ Recommended		Enhanced weldability ✓ Recommended at High Deposition Rates	
Environmental Total Weld Fume Generation & Manganese Generation					✓ Recommended			
Easy Cleanup with Silicon Control Technology			✓		✓		✓	
Impact Toughness	-20°F	-40°F	-20°F	-40°F	-20°F	-40°F	-20°F	-40°F
	✓	✓	✓		✓	✓	✓	✓
Diameters	.035"	.045"	.035"	.045"	.035"	.045"	.035"	.045"
	✓	✓	✓	✓		✓		
	.052"	1/16"	.052"	1/16"	.052"	1/16"	.052"	1/16"
	✓	✓	✓	✓	✓	✓	✓	✓



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
- Melted and manufactured 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 .045 33 SP	MetalShield MC6 .045 33 SP	COREWELD 70 .045 33 SP
FabCOR 86R .045 50 SP	S249412-027	Select 70C6 .045 50 SP	MetalShield MC6 .045 50 SP	
FabCOR 86R .045 500 DR	S249412-050	Select 70C6 .045 500 DR	MetalShield MC6 .045 500 DR	
FabCOR 86R .045 1000 DR	S249412-058			
FabCOR 86R .052 33 SP	S249415-029	Select 70C6 .052 33 SP	MetalShield MC6 .052 33 SP	COREWELD 70 .052 33 SP
FabCOR 86R .052 50 SP	S249415-027	Select 70C6 .052 50 SP	MetalShield MC6 .052 50 SP	
FabCOR 86R .052 500 DR	S249415-050	Select 70C6 .052 500 DR	MetalShield MC6 .052 500 DR	
FabCOR 86R .052 1000 DR	S249415-058			
FabCOR 86R 1/16 33 SP	S249419-029	Select 70C6 1/16 33 SP	MetalShield MC6 1/16 33 SP	COREWELD 70 1/16 33 SP
FabCOR 86R 1/16 50 SP	S249419-027	Select 70C6 1/16 50 SP	MetalShield MC6 1/16 50 SP	
FabCOR 86R 1/16 1000 DR	S249419-058	Select 70C6 1/16 500 DR		



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
- Melted and manufactured 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 .045 33 SP	MetalShield MC-70 XLS .045 33 SP	COREWELD 70 .045 33 SP
FabCOR Edge XP .045 50 SP	S250612-027	Select 70C6 .045 50 SP	MetalShield MC-70 XLS .045 50 SP	
FabCOR Edge XP .045 500 DR	S250612-050	Select 70C6 .045 500 DR		
FabCOR Edge XP .045 1000 DR	S250612-058			
FabCOR Edge XP .052 33 SP	S250615-029	Select 70C6 .052 33 SP	MetalShield MC-70 XLS .052 33 SP	COREWELD 70 .052 33 SP
FabCOR Edge XP .052 50 SP	S250615-027	Select 70C6 .052 50 SP	MetalShield MC-70 XLS .052 50 SP	
FabCOR Edge XP .052 500 DR	S250615-050	Select 70C6 .052 500 DR		
FabCOR Edge XP .052 1000 DR	S250615-058			
FabCOR Edge XP 1/16 33 SP	S250619-029	Select 70C6 1/16 33 SP	MetalShield MC-70 XLS 1/16 33 SP	COREWELD 70 1/16 33 SP
FabCOR Edge XP 1/16 50 SP	S250619-027	Select 70C6 1/16 50 SP	MetalShield MC-70 XLS 1/16 50 SP	
FabCOR Edge XP 1/16 1000 DR	S250619-058	Select 70C6 1/16 500 DR		



FABCOR[®] ELEMENT XP

METAL-CORED WIRE (Gas-Shielded)



PRODUCT OVERVIEW

- AWS A5.18: E70C-6M-H4
- Metal-Cored Wire
- Balanced arc characteristics
- Best-in-class weldability (including mill scale)
- Low Spatter

WHY ELEMENT XP?

GET THE DETAILS



**SUPERIOR
WELDABILITY**



**INDUSTRY
LEADING
PRODUCTIVITY**



**ENVIRONMENTAL
PERFORMANCE**

- Meaningful environmental benefits
- Reduces post-weld cleaning and rework
- Market leading silicon control technology
- Excellent deposition rates
- Robust low temp impact properties
- Low heat input and improved gap-bridging

RELEVANT MARKETS

- > Heavy Equipment
- > General Manufacturing
- > Under-roof confab

PRODUCT CROSS REFERENCE

EQUIVALENT ALTERNATIVES

Product	Part No.	Select Arc	Lincoln	ESAB
FabCOR Element XP .045 33 SP	S294812-029	Select 70C-LMn .045 33 SP	Metalshield Clarity MC-707	Coreweld C6 ECO .045 33 SP
FabCOR Element XP .045 1000 DR	S294812-058			
FabCOR Element XP .052 33 SP	S294815-029	Select 70C-LMn .052 33 SP	Metalshield Clarity MC-707	Coreweld C6 ECO .052 33 SP
FabCOR Element XP .052 1000 DR	S294815-058			
FabCOR Element XP 1/16 33 SP	S294819-029	Select 70C-LMn 1/16 33 SP	Metalshield Clarity MC-707	Coreweld C6 ECO 1/16 33 SP
FabCOR Element XP 1/16 1000 DR	S294819-058			



FABCOR® ELEVATE

METAL-CORED WIRE (Gas-Shielded)



PRODUCT OVERVIEW

- AWS A5.18: E70C-6M-H4
- Metal-Cored Wire
- Balanced arc characteristics
- Best-in-class weldability (including mill scale)
- Reduces post-weld cleaning and rework
- Market leading silicon control technology
- Excellent deposition rates and low tempt impact properties
- Low heat input and improved gap-bridging

WHY ELEVATE?

GET THE DETAILS



ROBOTIC
COMPATIBLE



MAXIMIZE
DEPOSITION



HIGH
PERFORMANCE

- Improves productivity
- Maximizes deposition and efficiency
- Excellent for robotic welding
- Low-Temperature impact properties

RELEVANT MARKETS

- > Heavy Equipment
- > General Manufacturing
- > Automation

PRODUCT CROSS REFERENCE

		EQUIVALENT ALTERNATIVES		
Product	Part No.	Select Arc	Lincoln	ESAB
FabCOR Elevate .052 33 SP	S279715-X29	Select 70C-6LS .052 33 SP	Metalshield MC-70 XLS .052 33 SP	Coreweld 77-HS .052 33 SP
FabCOR Elevate .052 50 SP	S279715-X27	Select 70C-6LS .052 60 SP	Metalshield MC-70 XLS .052 50 SP	
FabCOR Elevate .052 1000 DR	S279715-X58			
FabCOR Elevate 1/16 33 SP	S279719-X29	Select 70C-6LS 1/16 33 SP	Metalshield MC-70 XLS 1/16 33 SP	Coreweld 77-HS 1/16 33 SP
FabCOR Elevate 1/16 50 SP	S279719-X27	Select 70C-6LS 1/16 60 SP	Metalshield MC-70 XLS 1/16 50 SP	
FabCOR Elevate 1/16 1000 DR	S279719-X58			



FABCOR® HERCULES

METAL-CORED WIRE (Gas-Shielded)



PRODUCT OVERVIEW

- AWS A5.18: E70C-6M H4
- The only manufacturer-recommended wire for welding using the Hercules system.
- Wire manufacturing process optimized for welding using the Hercules system.
- Proprietary formula specifically addresses the disadvantages of welding using high wire feed speeds with conventional wires.
- Designed to offer robust mechanical properties and good low-temperature toughness when welding at higher amperages and wire feed speeds.

WHY HERCULES?

GET THE DETAILS



ROBOTIC
COMPATIBLE



MAXIMIZE
DEPOSITION



HIGH
PERFORMANCE

- Increase your deposition rate up to 30% or more.
- Improves weld throughput by 30% without risk to weld quality.
- Eliminates your welding bottleneck and unlocks unutilized capacity

RELEVANT MARKETS

- > Manufacturing
- > Heavy Equipment
- > Construction
- > Truck and Trailer
- > Agriculture

PRODUCT CROSS REFERENCE

		EQUIVALENT ALTERNATIVES		
Product	Part No.	Select Arc	Lincoln	ESAB
FabCOR Hercules .052 1000 DR	S279715-058		Lincoln Hyperfill	
FabCOR Hercules 1/16 1000 DR	S279719-058		Lincoln Hyperfill	

NOTE: There is no equivalent process/alternative to Hercules as it is unique technology in the market.

This product is designed for exclusive use with the Hercules system.



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.
- Melted and manufactured in the USA

RELEVANT MARKETS

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

PRODUCT CROSS REFERENCE

			EQUIVALENT ALTERNATIVES	
Product	Part No.	Select Arc	Lincoln	ESAB
Fabco Triple 7 .045 15 SP	S246312-023		UltraCore 71A75 Dual .045 15 SP	
Fabco Triple 7 .045 33 SP	S246312-029	Select 727 .045 33 SP	UltraCore 71A75 Dual .045 33 SP	Dual Shield 710X-M .045 33 SP
Fabco Triple 7 .045 50 SP	S246312-027	Select 727 .045 50 SP	UltraCore 71A75 Dual .045 50 SP	
Fabco Triple 7 .045 500 DR	S246312-050	Select 727 .045 500 DR		
Fabco Triple 7 .052 15 SP	S246315-023		UltraCore 71A75 Dual .052 15 SP	
Fabco Triple 7 .052 33 SP	S246315-029	Select 727 .052 33 SP	UltraCore 71A75 Dual .052 33 SP	Dual Shield 710X-M .052 33 SP
Fabco Triple 7 .052 50 SP	S246315-027		UltraCore 71A75 Dual .052 50 SP	
Fabco Triple 7 .052 500 DR	S246315-050	Select 727 .052 500 DR	UltraCore 71A75 Dual .052 500 DR	Dual Shield 710X-M .052 600 DR
Fabco Triple 7 1/16 15 SP	S246319-023			
Fabco Triple 7 1/16 33 SP	S246319-029	Select 727 1/16 33 SP	UltraCore 71A75 Dual 1/16 33 SP	Dual Shield 710X-M 1/16 33 SP
Fabco Triple 7 1/16 50 SP	S246319-027	Select 727 1/16 50 SP	UltraCore 71A75 Dual 1/16 50 SP	Dual Shield 710X-M 1/16 50 SP
Fabco Triple 7 1/16 60 CL	S246319-002	Select 727 1/16 60 CL		Dual Shield 710X-M 1/16 60 CL
Fabco Triple 7 1/16 600 DR	S246319-056	Select 727 1/16 600 DR	UltraCore 71A75 Dual 1/16 500 DR	Dual Shield 710X-M 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 .035 33 SP		
Fabco Excel-Arc 71 .045 15 SP	S247112-023		UltraCore 71C .045 15 SP	Dual Shield 710X .045 15 SP
Fabco Excel-Arc 71 .045 33 SP	S247112-029	Select 720 .045 33 SP	UltraCore 71C .045 33 SP	Dual Shield 710X .045 33 SP
Fabco Excel-Arc 71 .045 44 SP	S247112-044	Select 720 .045 45 SP		
Fabco Excel-Arc 71 .045 500 XPK	S247112-050	Select 720 .045 500 DR		
Fabco Excel-Arc 71 .052 15 SP	S247115-023			Dual Shield 710X .052 15 SP
Fabco Excel-Arc 71 .052 33 SP	S247115-029	Select 720 .052 33 SP	UltraCore 71C .052 33 SP	
Fabco Excel-Arc 71 .052 50 SP	S247115-027		UltraCore 71C .052 50 SP	
Fabco Excel-Arc 71 .052 600 XPK	S247115-056			Dual Shield 710X .052 600 DR
Fabco Excel-Arc 71 1/16 33 SP	S247119-029	Select 720 1/16 33 SP	UltraCore 71C 1/16 33 SP	Dual Shield 710X 1/16 33 SP
Fabco Excel-Arc 71 1/16 44 SP	S247119-044	Select 720 1/16 45 SP		
Fabco Excel-Arc 71 1/16 50 SP	S247119-027	Select 720 1/16 50 SP	UltraCore 71C 1/16 50 SP	
Fabco Excel-Arc 71 1/16 60 CL	S247119-002	Select 720 1/16 60 CL		Dual Shield 710X 1/16 60 CL
Fabco Excel-Arc 71 1/16 600 XPK	S247119-056	Select 720 1/16 500 DR		Dual Shield 710X 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 .072 25 SP	Coreshield 8 .072 25 SP
FabShield XLR-8 .072 33 VCSP	S225724-053		Innershield NR-232 .072 25 SP	Coreshield 8 .072 25 SP
FabShield XLR-8 .072 50 VCL	S225724-V14		Innershield NR-232 .072 50 CL	Coreshield 8 .072 50 SP
FabShield XLR-8 1/16 12 VCSP	S225719-079			Coreshield 8 1/16 15 SP
FabShield XLR-8 1/16 20 VCSP	S225719-082			Coreshield 8 1/16 20 SP
FabShield XLR-8 1/16 33 VCSP	S225719-053			Coreshield 8 1/16 25 SP
FabShield XLR-8 1/16 33 VCSP	S225719-067			Coreshield 8 1/16 25 SP
FabShield XLR-8 5/64 20 VCSP	S225725-082	Select 78 5/64 25 SP	Innershield NR-232 5/64 25 SP	Coreshield 8 5/64 20 SP
FabShield XLR-8 5/64 33 VCSP	S225725-053	Select 78 5/64 25 SP	Innershield NR-232 5/64 25 SP	Coreshield 8 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 | > Plate Fab | > Heavy Equipment |
| > Offshore | > Construction | > Earth Moving Equipment |
| > Mining | > Structural Applications | |
| > Agriculture | | |

PRODUCT CROSS REFERENCE

EQUIVALENT ALTERNATIVES

Product	Part No.	Select Arc	Lincoln	ESAB
Fabco TR-70 .045 33 SP	S247012-029	Select 70TR .045 33 SP		
Fabco TR-70 1/16 33 SP	S247019-029	Select 70TR 1/16 33 SP		Dual Shield 700X 1/16 33 SP
Fabco TR-70 1/16 60 CL	S247019-002	Select 70TR 1/16 60 CL	UltraCore 70C 1/16 50 CL	Dual Shield 700X 1/16 60 CL
Fabco TR-70 1/16 600 XPK	S247019-056		UltraCore 70C 1/16 500 DR	
Fabco TR-70 3/32 60 CL	S247029-002	Select 70TR 3/32 60 CL	UltraCore 70C 3/32 50 CL	Dual Shield 700X 3/32 60 CL
Fabco TR-70 3/32 600 DR	S247029-008	Select 70TR 3/32 500 DR	UltraCore 70C 3/32 500 DR	
Fabco TR-70 3/32 800 RLFL	S247029-069			Dual Shield 700X 3/32 850 RL
Fabco TR-70 5/64 50 SP	S247025-027		UltraCore 70C 5/64 50 CL	
Fabco TR-70 5/64 60 CL	S247025-002	Select 70TR 5/64 60 CL	UltraCore 70C 5/64 50 CL	
Fabco TR-70 5/64 600 DR	S247025-008	Select 70TR 5/64 600 DR	UltraCore 70C 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 .045 33 SP	UltraCore 81Ni1A75-H/ 81Ni1C-H .045 33 SP	Dual Shield 810X-Ni1 .045 33 SP
Fabco 811N1 1/16 60 CL	S283619-002	Select 820-Ni1 1/16 60 CL		Dual Shield 810X-Ni1 1/16 60 CL
Fabco 811N1 1/16 50 CP	S283619-027	Select 820-Ni1 1/16 50 SP	UltraCore 81Ni1C-H 1/16 50 SP	
Fabco 811N1 1/16 33 SP	S283619-029	Select 820-Ni1 1/16 33 SP	UltraCore 81Ni1A75-H/ 81Ni1C-H 1/16 33 SP	Dual Shield 810X-Ni1 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 | > Agriculture | > General Fabrication |
| > Storage Vessels | > Construction | |
| > Structural Steel | > Heavy Equipment | |
| > Offshore | > Mining | |

PRODUCT CROSS REFERENCE

EQUIVALENT ALTERNATIVES

Product	Part No.	Select Arc	Lincoln	ESAB
Fabco XL-550 .045 33 VCSP	S245112-053	Select 720HP .045 25 SP/33 SP	UltraCore 712C .045 33 SP	Dual Shield II 71 Ultra .045 33 PSP
Fabco XL-550 .052 33 VCSP	S245115-053	Select 720HP .052 25 WB/33 SP	UltraCore 712C .052 33 SP	Dual Shield II 71 Ultra .052 33 PSP
Fabco XL-550 1/16 33 SP	S245119-029	Select 720HP 1/16 25 WB/33 SP	UltraCore 712C 1/16 33 SP	Dual Shield II 71 Ultra 1/16 33 PSP
Fabco XL-550 1/16 60 CL	S245119-002	Select 720HP 1/16 60 CL		Dual Shield II 71 Ultra 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 .045 33 SP	UltraCore 712A80 .045 33 SP	Dual Shield II 70 Ultra .045 33 SP
Fabco XL-525 .045 50 SP	S283212-027		UltraCore 712A80 .045 50 SP	
Fabco XL-525 .045 600 DR	S283212-056			
Fabco XL-525 .052 33 SP	S283215-029		UltraCore 712A80 .052 33 SP	Dual Shield II 70 Ultra .052 33 PSP
Fabco XL-525 1/16 60 CL	S283219-002			Dual Shield II 70 Ultra 1/16 60 CL
Fabco XL-525 1/16 33 SP	S283219-029	Select 721 1/16 33 SP	UltraCore 712A80 1/16 33 SP	Dual Shield II 70 Ultra 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 | > Shipbuilding | > Recreational Boat |
| – Automotive | > Aerospace | > General Fab |
| – Motorcycle | > Trailer | |
| – Bicycle | | |

PRODUCT CROSS REFERENCE

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

NOTE: There is no equivalent process/alternative to MAXALMIG 4943 as it is unique technology in the market.



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 .035 1lb Spool	SuperGlaze 5356 .035 1lb Spool
MaxalMig 5356 .047 16lb Basket/Spool	535604712/ 535604712P	ALMIGWELD 5356 .047 16lb Wire Basket	
MaxalMig 5356 .047 22lb Spool	535694712P22	ALMIGWELD 5356 .047 20lb Spool	SuperGlaze 5356 3/64 20lb Spool
MaxalMig 5356 .047 300lb Drum	535604723	ALMIGWELD 5356 .047 311lb Drum	SuperGlaze 5356 3/64 300lb Box
MaxalMig 5356 .062 16lb Basket/Spool	535606212/ 535606212P	ALMIGWELD 5356 .062 16lb Wire Basket	
MaxalMig 5356 .062 22lb Spool	535606212P22	ALMIGWELD 5356 .062 20lb Spool	SuperGlaze 5356 1/16 20lb Spool
MaxalMig 5356 .094 TIG 10lb	535609470	ALTIGWELD 5356 .094 TIG 10lb	SuperGlaze 5356 3/32 TIG 10lb
MaxalMig 5356 .125 TIG 10lb	535612570	ALTIGWELD 5356 .125 TIG 10lb	SuperGlaze 5356 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 .035 1lb Spool	SuperGlaze 4043 .035 1lb Spool
MaxalMig 4043 .047 16lb Basket/Spool	404304712/ 404304712P	ALMIGWELD 4043 .047 16lb Wire Basket	
MaxalMig 4043 .047 22lb Spool	404394712P22	ALMIGWELD 4043 .047 20lb Spool	SuperGlaze 4043 3/64 20lb Spool
MaxalMig 4043 .047 300lb Drum	404304723	ALMIGWELD 4043 .047 311lb Drum	SuperGlaze 4043 3/64 300lb Box
MaxalMig 4043 .062 16lb Basket/Spool	404306212/ 404305212P	ALMIGWELD 4043 .062 16lb Wire Basket	
MaxalMig 4043 .062 22lb Spool	404306212P22	ALMIGWELD 4043 .062 20lb Spool	SuperGlaze 4043 1/16 20lb Spool
MaxalTig 4043 .094 10lb	404309470	ALTIGWELD 4043 .094 TIG 10lb	SuperGlaze 4043 3/32 TIG 10lb
MaxalTig 4043 .125 10lb	404312570	ALTIGWELD 4043 .125 TIG 10lb	SuperGlaze 4043 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 | > Offshore | > Boiler/Pressure Vessel |
| > Mining | > Shipbuilding | > Alloy & High Carbon Castings |
| > Pipe/Pipeline | > General Fab | > Power & Petrochemical Plants |
| > Railcar | > Construction | |
| > Heavy Equipment | > Low Alloy Structure | |
| > Infrastructure | | |

Product Cross Reference		Equivalent Alternatives		
Product	Part No.	Washington Alloy	Lincoln	ESAB
Hobart 418 1/4 50 CAN	S119981-035	E7018-1 1/8 50 CAN	Excalibur 7018-1 MR 1/4 50 CAN	
Hobart 418 1/8 10 CAN	S119944-033		Excalibur 7018-1 MR 1/8 10 CAN	Atom Arc 7018-1 1/8 10 CAN
Hobart 418 1/8 10 PPAK	S119944-089	E7018-1 1/8 10 PPAK		
Hobart 418 1/8 5 PPAK	S119944-045			
Hobart 418 1/8 50 CAN	S119944-035		Excalibur 7018-1 MR 1/8 50 CAN	Atom Arc 7018-1 1/8 50 CAN
Hobart 418 3/16 50 CAN	S119958-035		Excalibur 7018-1 MR 3/16 50 CAN	Atom Arc 7018-1 3/16 50 CAN
Hobart 418 3/32 10 CAN	S119932-033		Excalibur 7018-1 MR 3/32 10 CAN	Atom Arc 7018-1 3/32 10 CAN
Hobart 418 3/32 10 PPAK	S119932-089	E7018-1 3/32 10 PPAK		
Hobart 418 3/32 5 PPAK	S119932-045			
Hobart 418 3/32 50 CAN	S119932-035	E7018-1 3/32 50 CAN	Excalibur 7018-1 MR 3/32 50 CAN	Atom Arc 7018-1 3/32 50 CAN
Hobart 418 5/32 10 CAN	S119951-033			Atom Arc 7018-1 5/32 10 CAN
Hobart 418 5/32 10 PPAK	S119951-089	E7018-1 5/32 10 PPAK		
Hobart 418 5/32 5 PPAK	S119951-045			
Hobart 418 5/32 50 CAN	S119951-035	E7018-1 5/32 50 CAN	Excalibur 7018-1 MR 5/32 50 CAN	Atom Arc 7018-1 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 .035 33 SR	SupeArc L-56 .035 33 SR	Spoolarc 86 .035 33 SR
Quantum Arc 6 .035 45 FS	S307608-085	Standard Arc S-6 .035 45 FS	SupeArc L-56 .035 33 FS	Spoolarc 86 .035 44 FS
Quantum Arc 6 .035 45 SR	S307608-045	Standard Arc S-6 .035 45 SR	SupeArc L-56 .035 44 SR	
Quantum Arc 6 .035 300 RRP	S307608-073	Standard Arc S-6 .035 250 DR	SupeArc L-56 .035 250 DR	
Quantum Arc 6 .035 600 RP	S307608-011	Standard Arc S-6 .035 500 DR	SupeArc L-56 .035 500 DR	Spoolarc 86 .035 550 FS
Quantum Arc 6 .035 600 RRP	S307608-074	Standard Arc S-6 .035 500 DR	SupeArc L-56 .035 500 DR	
Quantum Arc 6 .035 950 RRP	S307608-070	Standard Arc S-6 .035 900 DR	SupeArc L-56 .035 1000 DR	Spoolarc 86 .035 900 DR
Quantum Arc 6 .045 33 SR	S307612-033	Standard Arc S-6 .045 33 SR	SupeArc L-56 .045 33 SR	Spoolarc 86 .045 33 SR
Quantum Arc 6 .045 45 FS	S307612-085	Standard Arc S-6 .045 45 FS	SupeArc L-56 .045 44 FS	Spoolarc 86 .045 44 FS
Quantum Arc 6 .045 45 SR	S307612-045	Standard Arc S-6 .045 45 SR	SupeArc L-56 .045 44 SR	
Quantum Arc 6 .045 60 FS	S307612-028	Standard Arc S-6 .045 60 FS	SupeArc L-56 .045 60 FS	Spoolarc 86 .045 60 FS
Quantum Arc 6 .045 300 RRP	S307612-073	Standard Arc S-6 .045 250 DR	SupeArc L-56 .045 250 DR	
Quantum Arc 6 .045 600 RP	S307612-011	Standard Arc S-6 .045 500 DR	SupeArc L-56 .045 500 DR	Spoolarc 86 .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 .045 500 DR	SupeArc L-56 .045 500 DR	Spoolarc 86 .045 550 DR
Quantum Arc 6 .045 950 RRP	S307612-070	Standard Arc S-6 .045 900 DR	SupeArc L-56 .045 1000 DR	Spoolarc 86 .045 900 DR
Quantum Arc 6 .052 45 SR	S307615-045	Standard Arc S-6 .052 45 SR		
Quantum Arc 6 .052 60 FS	S307615-028	Standard Arc S-6 .052 60 FS	SupeArc L-56 .052 60 SP	Spoolarc 86 .052 60 FS
Quantum Arc 6 .052 300 RRP	S307615-073		SupeArc L-56 .052 250 DR	
Quantum Arc 6 .052 600 RRP	S307615-074	Standard Arc S-6 .052 500 DR	SupeArc L-56 .052 500 DR	Spoolarc 86 .052 550 DR
Quantum Arc 6 .052 950 RRP	S307615-070	Standard Arc S-6 .052 900 DR	SupeArc L-56 .052 1000 DR	Spoolarc 86 .052 900 DR



TALK TO AN EXPERT

P: 1-800-532-2618

E: applications.engineering@hobartbrothers.com

A welder wearing a blue and red American flag patterned helmet and yellow protective gloves is welding a metal component on a workbench. Bright sparks are flying from the welding point. The background is dark and industrial.

**AT THE CORE OF
EVERY GREAT WELD**

