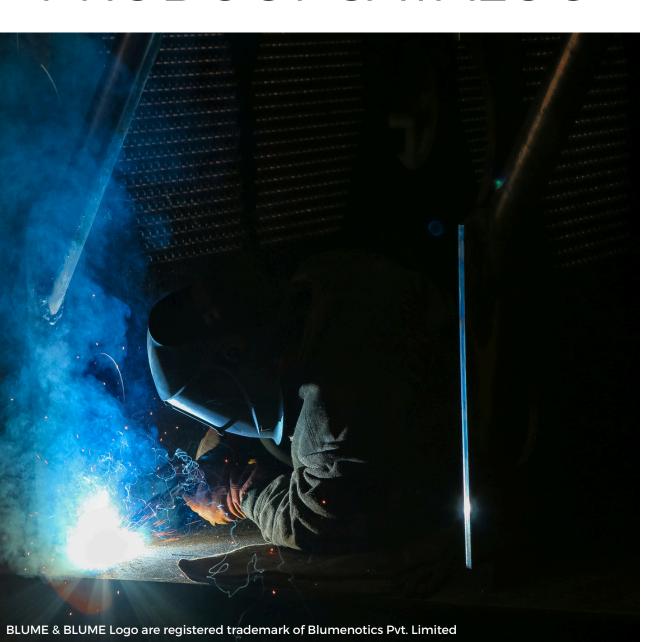


Xycore Incorporated

New Jersey | Georgia

MIG WIRE PRODUCT CATALOG





BLUME® MIG WIRES

Carbon Steel MIG Wires		Nickel Alloy MIG Wires	
BLUME [®] ER70S-6 - AWS A5.18 ER70S-6	102	BLUME® ERNiCr-3 - AWS A5.14 ERNiCr-3	166
BLUME [®] ER70S-3 - AWS A5.18 ER70S-3	104	BLUME® ERNiCrMo-3 - AWS A5.14 ERNiCrMo-3	168
BLUME [®] ER70S-4 - AWS A5.18 ER70S-4	106	BLUME® ERNiCrMo-4 - AWS A5.14 ERNiCrMo-4	170
BLUME [®] ER70S-G - AWS A5.18 ER70S-G	108	BLUME® ERNiCrMo-10 - AWS A5.14 ERNiCrMo-10	172
		BLUME® ERNi-1 - AWS A5.14 ERNi-1	174
Low Alloy Steel MIG Wires		BLUME® ERNICu-7 - AWS A5.14 ERNICu-7	176
BLUME [®] ER80S-D2 - AWS A5.28 ER80S-D2	110		
BLUME [®] ER80S-G - AWS A5.28 ER80S-G	112	Aluminum MIG Wires	
BLUME® ER90S-G - AWS A5.28 ER90S-G	114	BLUME® ER1070 - AWS A5.10 ER1070	17 8
BLUME® ER100S-G - AWS A5.28 ER100S-G	116	BLUME [®] ER4043 - AWS A5.10 ER4043	180
BLUME® ER80S-Ni1 - AWS A5.28 ER80S-Ni1	118	BLUME [®] ER4047 - AWS A5.10 ER4047	182
BLUME® ER80S-Ni2 - AWS A5.28 ER80S-Ni2	120	BLUME® ER5356 - AWS A5.10 ER5356	183
BLUME® ER80S-Ni3 - AWS A5.28 ER80S-Ni3	122	BLUME® ER5183 - AWS A5.10 ER5183	185
Stainless Steel MIG Wires			
BLUME® ER307 - AWS A5.9 ER307	124		
BLUME [®] ER308 - AWS A5.9 ER308	126		
BLUME [®] ER308L - AWS A5.9 ER308L	128		
BLUME [®] ER308LSi - AWS A5.9 ER308LSi	130		
BLUME [®] ER309 - AWS A5.9 ER309	132		
BLUME [®] ER309L - AWS A5.9 ER309L	134		
BLUME [®] ER309LSi - AWS A5.9 ER309LSi	136		
BLUME [®] ER309Mo - AWS A5.9 ER309Mo	138		
BLUME [®] ER309LMo - AWS A5.9 ER309LMo	140		
BLUME [®] ER310 - AWS A5.9 ER310	142		
BLUME [®] ER316 - AWS A5.9 ER316	144		
BLUME [®] ER316L - AWS A5.9 ER316L	146		
BLUME [®] ER317 - AWS A5.9 ER317	148		
BLUME [®] ER317L - AWS A5.9 ER317L	150		
BLUME [®] ER347 - AWS A5.9 ER347	152		
BLUME [®] ER385 - AWS A5.9 ER385	154		
BLUME [®] ER410 - AWS A5.9 ER410	156		
BLUME [®] ER430 - AWS A5.9 ER430	158		
BLUME [®] ER630 - AWS A5.9 ER630	160		
BLUME [®] ER2209 - AWS A5.9 ER2209	162		

164

BLUME® ER2594 - AWS A5.9 ER2594





ASME SFA/AWS A5.18 ER70S-6

SHIELDING GAS

100% CO2 ,75% Argon and 25% CO2 or 98% Argon and 2 % CO2

WELDING POSITION

All Position

DESCRIPTION

BLUME® ER70S-6 is a general purpose welding wire for fabrication of mild steel. It is well suited for general purpose, manual and semiautomatic applications in most industries. Contains deoxidizers that provide better wetting, yielding a flatter bead shape and the capability of faster travel speeds. Usually used with 100% CO2 or with Argon + CO2.

TYPICAL APPLICATION

BLUME® ER70S-6 is a wire with higher levels of Deoxidizers (Mn & Si) compared to other carbon steel wires. This wire is suitable for welding of steels with moderate amounts of scale or rust.

MECHANICAL PROPERTIES		
	As-Welded	
Yield Point, MPa	> 420	
Tensile Strength, MPa	> 500	
Elongation, % (L=4d)	> 29	

	CHARPY V-NOTCH IMPACT PROPERTIES		
Testing Temp.	As-Welded (J)		
-22°F (-30°C)	47 (min)		

UNDILUTED WELD METAL ANALYSIS (WT%)						
	P					
As Welded	0.08	1.52	0.80	0.010	0.015	
	Cu	-	-	-	-	
As Welded	0.21	-	-	-	-	

Carbon Steel MIG Wire





CONFORMANCE ASME SFA/AWS A5.18 ER70S-6 SHIELDING GAS

100% CO2 ,75% Argon and 25% CO2 or 98% Argon and 2 % CO2

WELDING POSITION

All Position

Carbon Steel MIG Wire

SUGGESTED WELDING PARAMETERS							
Diameter	F	at	Vertical-Up		Overhead		
	Volts Amps		Volts	Amps	Volts	Amps	
.030" (0.8mm)	14 - 22	50 - 180	12 - 20	70 - 230	14 - 21	100 - 280	
.035" (0.9mm)	15 - 26	70 - 230	14 - 23	100 - 280	15 - 25	120 - 230	
.045" (1.2mm)	22 - 28	180 - 260	21 - 26	150 - 230	22 - 27	160 - 240	
1/16" (1.6mm)	25 - 32	250 - 350	23 - 28	200 - 280	24 - 30	220 - 300	

PACKAGING





ASME SFA/AWS A5.18 ER7OS-3

SHIELDING GAS

100% CO2 ,75% Argon and 25% CO2 or 98% Argon and 2 % CO2

WELDING POSITION

All Position

DESCRIPTION

BLUME® ER70S-3 is a gas-shielded solid welding wire designed for low alloy steels, offering excellent welding performance with a stable arc, low spatter, good molten metal flow, and a clean, well-formed bead appearance. It is particularly well-suited for thin plate welding at low current and high travel speeds. The deposited metal provides well-balanced mechanical properties, making it ideal for a wide range of general fabrication applications.

Carbon Steel MIG Wire

TYPICAL APPLICATION

BLUME ER70S-3 is ideal for generalpurpose welding in industries such as automotive, construction, machinery furniture fabrication, and metal manufacturing. It is especially suited for welding thin-gauge mild and low-alloy steels where minimal spatter and smooth bead appearance are required. Common applications include sheet metal structures and structural frames.

MECHANICAL PROPERTIES		
	As-Welded	
Yield Point, MPa	> 420	
Tensile Strength, MPa	> 500	
Elongation, % (L=4d)	> 29	

CHARPY V-NOTCH IMPACT PROPERTIES		
Testing Temp.	As-Welded (J)	
-22°F (-30°C)	47 (min)	

UNDILUTED WELD METAL ANALYSIS (WT%)						
	С	Mn	Si	S	P	
As Welded	0.07	1.15	0.63	0.021	0.020	
	Ni	Cr	Мо	V	Cu	
As Welded	0.023	0.021	0.023	0.004	0.12	





CONFORMANCE ASME SFA/AWS A5.18 ER7OS-3 SHIELDING GAS

100% CO2 ,75% Argon and 25% CO2 or 98% Argon and 2 % CO2

WELDING POSITION

All Position

Carbon Steel MIG Wire

SUGGESTED WELDING PARAMETERS					
Diameter	Amps	CO₂ gas flow (L/min)			
.030" (0.8mm)	50 - 100	15			
.035" (0.9mm)	50 - 220	15 - 20			
.045" (1.2mm)	80 - 350	15 - 25			
1/16" (1.6mm)	170 ~ 550	20 - 25			

PACKAGING





ASME SFA/AWS A5.18 ER7OS-4

SHIELDING GAS

100% CO2 ,75% Argon and 25% CO2 or 98% Argon and 2 % CO2

WELDING POSITION

All Position

DESCRIPTION

BLUME® ER70S-4 is a gas-shielded solid welding wire designed for low alloy steels, delivering excellent welding performance with a stable arc and clean, well-formed bead appearance. Suitable for all-position welding, it produces deposited metal with well-balanced mechanical properties, making it a reliable choice for a variety of fabrication needs.

TYPICAL APPLICATION

BLUME® ER70S-4 is suitable for welding a range of carbon and low alloy steels with a tensile strength of up to 500 MPa. It is commonly used in applications such as bridge construction, structural fabrication, and construction machinery.

MECHANICAL PROPERTIES		
	As-Welded	
Yield Point, MPa	450	
Tensile Strength, MPa	540	
Elongation, % (L=4d)	30	

CHARPY V-NOTCH IMPACT PROPERTIES				
Testing Temp.	As-Welded (J)			
-22°F (-30°C)	95			
-22°F (-30°C)	93			
-22°F (-30°C)	87			

UNDILUTED WELD METAL ANALYSIS (WT%)						
	С	Mn	Si	S	P	
As Welded	0.085	1.05	0.72	0.014	0.014	
	Ni	Cr	Мо	V	Cu	
As Welded	0.005	0.018	0.006	0.003	0.11	

Carbon Steel MIG Wire





CONFORMANCE ASME SFA/AWS A5.18 ER7OS-4

SHIELDING GAS

100% CO2 ,75% Argon and 25% CO2 or 98% Argon and 2 % CO2

WELDING POSITION

All Position

Carbon Steel MIG Wire

SUGGESTED WELDING PARAMETERS					
Diameter	Amps CO₂ gas flow (L/min)				
.030" (0.8mm)	50 - 100	15			
.035" (0.9mm)	50 - 220	15 - 20			
.045" (1.2mm)	80 - 350	15 - 25			
1/16" (1.6mm)	170 ~ 550	20 - 25			

PACKAGING





ASME SFA/AWS A5.18 ER7OS-G

SHIELDING GAS

100% CO2 ,75% Argon and 25% CO2 or 98% Argon and 2 % CO2

WELDING POSITION

All Position

DESCRIPTION

BLUME® ER70S-G is a gas-shielded solid welding wire designed for low alloy steels, offering excellent welding performance characterized by a stable arc, minimal spatter, strong resistance to porosity, and a smooth, well-defined bead appearance. Suitable for all-position welding, the deposited metal delivers well-balanced mechanical properties, making it a reliable choice for a wide range of fabrication applications.

Carbon Steel MIG Wire

TYPICAL APPLICATION

BLUME® ER70S-G is suitable for welding carbon and low alloy steels with a tensile strength of up to 500 MPa, and is commonly used in applications such as bridge construction, heavy equipment, automotive manufacturing, and general structural fabrication.

MECHANICAL PROPERTIES			
As-Welded			
Yield Point, MPa	450		
Tensile Strength, MPa	550		
Elongation, % (L=4d) 28.5			

CHARPY V-NOTCH IMPACT PROPERTIES			
Testing Temp.	As-Welded (J)		
-40°F (-40°C)	78		
-40°F (-40°C)	82		
-40°F (-40°C)	81		

UNDILUTED WELD METAL ANALYSIS (WT%)							
	C Mn Si S P						
As Welded	0.068	1.87	0.81	0.013	0.016		
	Ni	Cr	Cu	-	-		
As Welded	0.008	0.024	0.120	-	-		





CONFORMANCE ASME SFA/AWS A5.18 ER7OS-G

SHIELDING GAS

100% CO2 ,75% Argon and 25% CO2 or 98% Argon and 2 % CO2

WELDING POSITION

All Position

Carbon Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps CO₂ gas flow (L/min)			
.030" (0.8mm)	50 - 100	15		
.035" (0.9mm)	50 - 220	15 - 20		
.045" (1.2mm)	80 - 350	15 - 25		
1/16" (1.6mm)	170 ~ 550	20 - 25		

PACKAGING



DESCRIPTION

Low Alloy Steel MIG Wire



CONFORMANCE

ASME SFA/AWS A5.28 ER80S-D2

SHIELDING GAS

100% CO2,75% Argon and 25% CO2

WELDING POSITION

TYPICAL APPLICATION

All Position

BLUME® ER80S-D2 is a gas-shielded solid welding wire for high-strength steel, which has excellent performance with optimal appearance. It is suitable for short circuit, jet, pulse and other welding methods. The deposited metal excellent comprehensive mechanical has properties and is suitable for welding with moderate impact load requirements.

BLUME® ER80S-D2 is suitable for welding base metals with a tensile strength of 550 MPa and is commonly used in applications such steel structures, bridge as construction, heavy equipment, and pressure vessels.

MECHANICAL PROPERTIES				
As-Welded with CO2				
Yield Point, MPa	493			
Tensile Strength, MPa	601			
Elongation, % (L=4d)	22			

CHARPY V-NOTCH IMPACT PROPERTIES			
Testing Temp.	As-Welded with CO2 (J)		
-22°F (-30°C)	64		
-22°F (-30°C)	54		
-22°F (-30°C)	46		

UNDILUTED WELD METAL ANALYSIS (WT%)							
	C Mn Si S P						
As Welded	0.10	1.70	0.65	0.008	0.010		
	Ni	Мо	Cu	-	-		
As Welded	0.019	0.46	0.12	-	-		





ASME SFA/AWS A5.28 ER80S-D2

SHIELDING GAS

100% CO2,75% Argon and 25% CO2

WELDING POSITION

All Position

Low Alloy Steel MIG Wire

SUGGESTED WELDING PARAMETERS					
Diameter	Amps CO₂ gas flow (L/min)				
.030" (0.8mm)	50 - 100	15			
.035" (0.9mm)	50 - 220	15 - 20			
.045" (1.2mm)	80 - 350	15 - 25			
1/16" (1.6mm)	170 ~ 550	20 - 25			

PACKAGING





ASME SFA/AWS A5.28 ER80S-G

SHIELDING GAS

100% CO2,75% Argon and 25% CO2

All Position

TYPICAL APPLICATION

WELDING POSITION

DESCRIPTION BLUME® ER80S-G is a gas-shielded MIG welding

Low Alloy Steel MIG Wire

wire engineered for marine-grade, atmosphericcorrosion-resistant steels. It delivers outstanding welding performance with a clean, well-defined profile, superior corrosion and crack bead resistance, and is approved for all-position welding. exhibits well-balanced The deposited metal it ideal for mechanical properties, making demanding marine and coastal applications.

BLUME® ER80S-G is suitable for welding marine atmospheric corrosion-resistant steels with a tensile strength of 550 MPa. It is commonly used in applications such as bridge construction and structural steel fabrication.

MECHANICAL PROPERTIES				
As-Welded with CO2				
Yield Point, MPa	495			
Tensile Strength, MPa	605			
Elongation, % (L=4d) 24				

CHARPY V-NOTCH IMPACT PROPERTIES			
Testing Temp.	As-Welded with CO2 (J)		
-40°F (-40°C)	151		
-40°F (-40°C)	149		
-40°F (-40°C)	133		

UNDILUTED WELD METAL ANALYSIS (WT%)					
C Mn Si S P					
As Welded	0.035	1.01	0.37	0.007	0.012
	Ni	Мо	Ti	Cu	-
As Welded	3.08	0.13	0.045	0.33	-





ASME SFA/AWS A5.28 ER80S-G

SHIELDING GAS

100% CO2,75% Argon and 25% CO2

WELDING POSITION

All Position

Low Alloy Steel MIG Wire

SUGGESTED WELDING PARAMETERS					
Diameter Amps CO₂ gas flow (L/min)					
.030" (0.8mm)	50 - 100	15			
.035" (0.9mm)	50 - 220	15 - 20			
.045" (1.2mm)	80 - 350	15 - 25			
1/16" (1.6mm)	170 ~ 550	20 - 25			

PACKAGING



DESCRIPTION



CONFORMANCE

ASME SFA/AWS A5.28 ER90S-G

SHIELDING GAS

All Position

TYPICAL APPLICATION

75% Argon and 25% CO2

WELDING POSITION

BLUME® ER90S-G is a mixed gas-shielded solid welding wire designed for heat-resistant steels. It delivers excellent welding performance with a stable arc, low spatter, smooth wire feed, and a clean, well-formed bead. Suitable for all-position welding, the deposited metal exhibits strong mechanical properties at elevated temperatures, making it ideal for high-temperature service conditions.

Low Alloy Steel MIG Wire

BLUME® ER90S-G is suitable for welding 2.25% Cr - 1%Mo pearlite heat-resistant steels operating at temperatures below 550°C, such as SA335 P22. It is primarily used in the fabrication of boiler tubes, pressure vessels, and components in the petrochemical industry and conventional thermal power plants.

MECHANICAL PROPERTIES			
As-Welded with CO2			
Yield Point, MPa 608			
Tensile Strength, MPa	710		
Elongation, % (L=4d)	20		

CHARPY V-NOTCH IMPACT PROPERTIES			
Testing Temp. As-Welded with CO2 (J)			
68°F (20°C)	151		
68°F (20°C)	149		
68°F (20°C)	133		

UNDILUTED WELD METAL ANALYSIS (WT%)							
	C Mn Si S P						
As Welded	0.08	0.90	0.55	0.006	0.015		
	Мо	Cr	Cu	-	-		
As Welded	0.95	2.40	0.10	-	-		





ASME SFA/AWS A5.28 ER90S-G

SHIELDING GAS

75% Argon and 25% CO2

WELDING POSITION

All Position

Low Alloy Steel MIG Wire

SUGGESTED WELDING PARAMETERS						
Diameter	Amps CO ₂ gas flow (L/min)					
.040" (1.0mm)	50 - 220	15 - 20				
.045" (1.2mm)	80 - 350	15 - 25				
.052" (1.4mm)	120 - 400	20 - 25				
1/16" (1.6mm)	170 ~ 550	20 - 25				

PACKAGING





ASME SFA/AWS A5.28 ER100S-G

SHIELDING GAS

75% Argon and 25% CO2

All Position

TYPICAL APPLICATION

WELDING POSITION

DESCRIPTION

Low Alloy Steel MIG Wire

BLUME® ER100S-G is a Ni-Mo-Ti alloyed, mixed gas-shielded solid welding wire developed for highstrength steels. It offers excellent welding performance, featuring a stable arc, minimal spatter, smooth wire feeding, and a clean, uniform bead appearance. Suitable for all-position welding, deposited metal provides outstanding it ideal for mechanical properties, making demanding structural applications.

BLUME® ER100S-G is suitable for welding base metals with a tensile strength of 690 MPa. It is widely used in industries such as construction and mining equipment, bridge building, structural steel fabrication, automotive manufacturing, and long-distance pipeline construction.

MECHANICAL PROPERTIES			
As-Welded with CO2			
Yield Point, MPa	645		
Tensile Strength, MPa	740		
Elongation, % (L=4d)	23		

CHARPY V-NOTCH IMPACT PROPERTIES			
Testing Temp.	As-Welded with CO2 (J)		
-40°F (-40°C)	100		
-40°F (-40°C)	96		
-40°F (-40°C)	88		

UNDILUTED WELD METAL ANALYSIS (WT%)							
	C Mn Si S P						
As Welded	0.065	1.63	0.63	0.009	0.013		
	Ni	Мо	Cu	-	-		
As Welded	0.61	0.32	0.11	-	-		





ASME SFA/AWS A5.28 ER100S-G

SHIELDING GAS

75% Argon and 25% CO2

WELDING POSITION

All Position

Low Alloy Steel MIG Wire

SUGGESTED WELDING PARAMETERS						
Diameter	Diameter Amps CO₂ gas flow (L/min)					
.040" (1.0mm)	50 - 220	15 - 20				
.045" (1.2mm)	80 - 350	15 - 25				
.052" (1.4mm)	120 - 400	20 - 25				
1/16" (1.6mm)	170 ~ 550	20 - 25				

PACKAGING



DESCRIPTION



CONFORMANCE

ASME SFA/AWS A5.28 ER80S-Nil

SHIELDING GAS

75% Argon and 25% CO2

All Position

TYPICAL APPLICATION

WELDING POSITION

Low Alloy Steel MIG Wire

BLUME® ER80S-Ni1 is a mixed gas-shielded solid welding wire designed for low-temperature steels. It delivers excellent welding performance with a stable arc, minimal spatter, smooth wire feed, and a clean, well-defined bead. Suitable for all-position welding, the deposited metal provides outstanding impact toughness at low temperatures, making it ideal for cold-weather and cryogenic applications.

BLUME® ER100S-G is suitable for welding low-temperature steels (down to -49°C) with a tensile strength of 550 MPa. It is primarily used in industries such as petrochemicals—including fertilizer, ethylene, coal liquefaction, and LPG- as well as in refrigeration systems, the food processing industry, and liquid gas storage equipment.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Yield Point, MPa	484	
Tensile Strength, MPa	575	
Elongation, % (L=4d)	26	

CHARPY V-NOTCH IMPACT PROPERTIES			
Testing Temp.	As-Welded with CO2 (J)		
-49°F (-45°C)	170		
-49°F (-45°C)	168		
-49°F (-45°C)	164		

UNDILUTED WELD METAL ANALYSIS (WT%)							
	C Mn Si S P						
As Welded	0.07	1.10	0.55	0.006	0.012		
	Ni	Cr	Мо	V	Cu		
As Welded	0.95	0.02	0.005	0.002	0.10		





ASME SFA/AWS A5.28 ER80S-Nil

SHIELDING GAS

75% Argon and 25% CO2

WELDING POSITION

All Position

Low Alloy Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps CO ₂ gas flow (L/min)			
.040" (1.0mm)	50 - 220	15 - 20		
.045" (1.2mm)	80 - 350	15 - 25		
.052" (1.4mm)	120 - 400	20 - 25		
1/16" (1.6mm)	170 ~ 550	20 - 25		

PACKAGING





ASME SFA/AWS A5.28 ER80S-Ni2

SHIELDING GAS

75% Argon and 25% CO2

All Position

TYPICAL APPLICATION

WELDING POSITION

DESCRIPTION

Low Alloy Steel MIG Wire

BLUME® ER80S-Ni2 is a mixed gas-shielded solid welding wire designed for low-temperature steels. It provides excellent welding performance with a stable arc, low spatter, smooth wire feeding, and a clean, uniform bead profile. Suitable for all-position welding, the deposited metal offers exceptional impact toughness at low temperatures, making it ideal for demanding cold-weather applications.

BLUME® ER80S-Ni2 is suitable for welding low-temperature steels (down to -76°C) with a tensile strength of 550 MPa. It is commonly used in the petrochemical industry-including applications such as fertilizer production, ethylene processing, coal liquefaction, and LPG systems—as well as in refrigeration equipment, the food industry, and liquid gas storage tanks.

MECHANICAL PROPERTIES			
As-Welded with CO2			
Yield Point, MPa	493		
Tensile Strength, MPa	590		
Elongation, % (L=4d)	26		

CHARPY V-NOTCH IMPACT PROPERTIES			
Testing Temp.	As-Welded with CO2 (J)		
-76°F (-60°C)	159		
-76°F (-60°C)	158		
-76°F (-60°C)	133		

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.035	1.15	0.45	0.006	0.010
	Ni	Cu	-	-	-
As Welded	0.95	0.10	-	-	-





ASME SFA/AWS A5.28 ER80S-Ni2

SHIELDING GAS

75% Argon and 25% CO2

WELDING POSITION

All Position

Low Alloy Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps CO ₂ gas flow (L/min)			
.040" (1.0mm)	50 - 220	15 - 20		
.045" (1.2mm)	80 - 350	15 - 25		
.052" (1.4mm)	120 - 400	20 - 25		
1/16" (1.6mm)	170 ~ 550	20 - 25		

PACKAGING



ASME SFA/AWS A5.28 ER80S-Ni3

SHIELDING GAS

75% Argon and 25% CO2

All Position

WELDING POSITION

DESCRIPTION TYPICAL APPLICATION

Low Alloy Steel MIG Wire

BLUME® ER80S-Ni3 is a mixed gas-shielded solid welding wire developed for low-temperature steels. It offers reliable welding performance with a stable arc, minimal spatter, smooth wire feed, and a clean, consistent bead appearance. Suitable for allposition welding, the deposited metal delivers outstanding impact toughness at extremely low temperatures, making it ideal for critical lowtemperature applications.

BLUME® ER80S-Ni3 is suitable for welding low-temperature steels (down to -75°C) with a tensile strength of 550 MPa. It is primarily used in the petrochemical industry, including fertilizer production, ethylene processing, coal liquefaction, and LPG systems—as well as in refrigeration equipment, the food processing sector, and cryogenic or liquid gas storage applications.

MECHANICAL PROPERTIES			
As-Welded with CO2			
Yield Point, MPa	485		
Tensile Strength, MPa	568		
Elongation, % (L=4d)	28		

CHARPY V-NOTCH IMPACT PROPERTIES			
Testing Temp.	As-Welded with CO2 (J)		
-76°F (-60°C)	170		
-76°F (-60°C)	162		
-76°F (-60°C)	160		

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.030	0.88	0.55	0.008	0.010
	Ni	Cu	-	-	-
As Welded	3.35	0.12	-	-	-





ASME SFA/AWS A5.28 ER80S-Ni3

SHIELDING GAS

75% Argon and 25% CO2

WELDING POSITION

All Position

Low Alloy Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps CO ₂ gas flow (L/min)			
.040" (1.0mm)	50 - 220	15 - 20		
.045" (1.2mm)	80 - 350	15 - 25		
.052" (1.4mm)	120 - 400	20 - 25		
1/16" (1.6mm)	170 ~ 550	20 - 25		

PACKAGING





ASME SFA/AWS A5.9 ER307

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

95% - 90% Ar + 5% - 10% CO2

DESCRIPTION

BLUME® ER307 is a gas-shielded MIG welding wire composed of 21Cr-9Ni-4Mn pure austenitic stainless steel. It offers excellent welding performance, featuring a stable arc, low spatter, smooth wire feeding, and a clean, well-formed bead. Suitable for all-position welding, it provides strong crack resistance and is ideal for joining non-magnetic steels, high-manganese steels, and work-hardened corrosion-resistant steels.

BLUME® ER307 is suitable for welding in non-magnetic environments or for joining dissimilar steels. It is commonly used in applications such as shipbuilding and other specialized structural fabrications requiring high crack resistance and toughness.

MECHANICAL PROPERTIES			
As-Welded with CO2			
Tensile Strength, MPa	635		
Elongation, % (L=4d)	36		

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.080	4.50	0.43	0.010	0.012
	Cr	Ni	Мо	Cu	-
As Welded	20.02	9.52	0.87	0.10	-





ASME SFA/AWS A5.9 ER307

SHIELDING GAS

95% - 90% Ar + 5% - 10% CO2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps	-		
.030" (0.8mm)	70 - 150	-		
.040" (1.0mm)	100 - 200	-		
.045" (1.2mm)	140 - 220	-		

PACKAGING





ASME SFA/AWS A5.9 ER308

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

99% - 97% Ar + 1% - 3% O2

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER308 is a gas-shielded MIG welding wire made of 21Cr-10Ni austenitic stainless steel, offering excellent welding performance with a stable arc, minimal spatter, smooth wire feeding, and a clean, uniform bead appearance. Approved for allposition welding, it provides good crack resistance and is suitable for welding non-magnetic steels, high-manganese steels, and work-hardened corrosion-resistant materials.

BLUME® ER308 is suitable for welding stainless steels such as 12Cr18Ni9 and 06Cr19Ni10. It is widely used in industries including petrochemicals, pressure vessels. food processing, medical equipment, construction machinery, and nuclear power.

MECHANICAL PROPERTIES			
	As-Welded with CO2		
Tensile Strength, MPa	580		
Elongation, % (L=4d)	40		

UNDILUTED WELD METAL ANALYSIS (WT%)						
	C Mn Si S P					
As Welded	0.040	1.80	0.31	0.008	0.013	
	Cr	Ni	Мо	Cu	-	
As Welded	20.15	9.52	0.036	0.34	-	





CONFORMANCE ASME SFA/AWS A5.9 ER308

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps	-		
.030" (0.8mm)	70 - 150	-		
.040" (1.0mm)	100 - 200	-		
.045" (1.2mm)	140 - 220	-		

PACKAGING





ASME SFA/AWS A5.9 ER308L SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

TYPICAL APPLICATION

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER308L is a gas-shielded MIG welding wire made from ultra-low carbon 21Cr-10Ni austenitic stainless steel. It offers excellent welding performance, characterized by a stable arc, low spatter, smooth wire feeding, and a clean, consistent bead appearance. Suitable for all-position welding, it provides strong crack resistance and is ideal for welding non-magnetic steels, high-manganese steels, and work-hardened corrosion-resistant alloys.

BLUME® ER308L is suitable for welding 022Cr19Ni10 stainless steel and is widely used in applications across the petrochemical industry, pressure vessel manufacturing, food processing, medical equipment, construction machinery, and nuclear power sectors.

MECHANICAL PROPERTIES			
	As-Welded with CO2		
Tensile Strength, MPa	590		
Elongation, % (L=4d)	41		

UNDILUTED WELD METAL ANALYSIS (WT%)						
	C Mn Si S P					
As Welded	0.023	1.63	0.40	0.009	0.013	
	Cr	Ni	Мо	Cu	-	
As Welded	20.10	10.55	0.037	0.09	-	





ASME SFA/AWS A5.9 ER308L

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps	-		
.030" (0.8mm)	70 - 150	-		
.040" (1.0mm)	100 - 200	-		
.045" (1.2mm)	140 - 220	-		

PACKAGING





ASME SFA/AWS A5.9 ER308LSi

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

99% - 97% Ar + 1% - 3% O2

BLUME® ER308LSi is suitable for welding

ultra-low carbon 022Cr19Ni10 stainless

steel and is commonly used in industries

such as petrochemicals, pressure vessel

fabrication, food processing, medical

equipment, and construction machinery.

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER308LSi is a gas-shielded MIG welding wire composed of ultra-low carbon 18Cr-8Ni austenitic stainless steel with enhanced silicon content. It delivers excellent welding performance, featuring a smooth arc, low spatter, stable wire feed, and superior bead appearance. Suitable for all-position welding, it offers good crack resistance and is ideal for welding non-magnetic steels, highmanganese alloys, and work-hardened corrosionresistant materials.

MECHANICAL PROPERTIES As-Welded with CO2 Tensile Strength, MPa 600 Elongation, % (L=4d) 40

UNDILUTED WELD METAL ANALYSIS (WT%)						
	C Mn Si S P					
As Welded	0.023	2.20	0.75	0.011	0.018	
	Cr	Ni	Мо	Cu	-	
As Welded	19.82	10.54	0.036	0.15	-	





ASME SFA/AWS A5.9 ER308LSi

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS					
Diameter	Amps	-			
.030" (0.8mm)	70 - 150	-			
.040" (1.0mm)	100 - 200	-			
.045" (1.2mm)	140 - 220	-			

PACKAGING





ASME SFA/AWS A5.9 ER309

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

TYPICAL APPLICATION

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER309 is a gas-shielded MIG welding wire composed of 24Cr-13Ni austenitic stainless steel. It provides excellent welding performance with a stable arc, minimal spatter, smooth wire feeding, and a clean, well-formed bead. Suitable for all-position welding, it offers strong crack resistance and is ideal for welding martensitic and pearlitic stainless steels with limited toughness.

BLUME® ER309 is suitable for welding Cr24Nil3 stainless steel and is commonly used in industries such as petrochemicals and thermal power generation.

MECHANICAL PROPERTIES			
	As-Welded with CO2		
Tensile Strength, MPa	610		
Elongation, % (L=4d)	40		

UNDILUTED WELD METAL ANALYSIS (WT%)						
	C Mn Si S P					
As Welded	0.081	1.61	0.40	0.013	0.012	
	Cr	Ni	Мо	Cu	-	
As Welded	23.85	13.15	0.023	0.08	-	





ASME SFA/AWS A5.9 ER309

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps	-		
.030" (0.8mm)	70 - 150	-		
.040" (1.0mm)	100 - 200	-		
.045" (1.2mm)	140 - 220	-		

PACKAGING





ASME SFA/AWS A5.9 ER309L **SHIELDING GAS**

All Position

and

99% - 97% Ar + 1% - 3% O2

TYPICAL APPLICATION

steel

BLUME® ER309L is suitable for welding

commonly used in petrochemical industry

stainless

022Cr24Ni13

applications.

WELDING POSITION

DESCRIPTION

BLUME® ER309L is a gas-shielded MIG welding wire made from ultra-low carbon 24Cr-13Ni austenitic stainless steel. It delivers excellent welding performance with a stable arc, low spatter, smooth wire feed, and a clean, uniform bead appearance. Suitable for all-position welding, it offers strong crack resistance and is ideal for joining martensitic and ferritic stainless steels with limited toughness.

MECHANICAL PROPERTIES As-Welded with CO2 Tensile Strength, MPa 590 Elongation, % (L=4d) 38

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)						
	C Mn Si S P					
As Welded	0.021	1.95	0.34	0.008	0.012	
	Cr	Ni	Мо	Cu	-	
As Welded	23.90	12.92	0.039	0.08	-	





ASME SFA/AWS A5.9 ER309L

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS		
Diameter	Amps	-
.030" (0.8mm)	70 - 150	-
.040" (1.0mm)	100 - 200	-
.045" (1.2mm)	140 - 220	-

PACKAGING





ASME SFA/AWS A5.9 ER309LSi

SHIELDING GAS 99% - 97% Ar + 1% - 3% O2

WELDING POSITION

TYPICAL APPLICATION

All Position

DESCRIPTION

Stainless Steel MIG Wire

BLUME® ER309LSi is a gas-shielded MIG welding wire composed of ultra-low carbon 24Cr-13Ni austenitic stainless steel with enhanced silicon content. It offers excellent welding performance with a stable arc, minimal spatter, smooth wire feeding, and superior bead appearance. Approved for all-position welding, it provides good crack resistance and is well-suited for welding martensitic and ferritic stainless steels with limited toughness.

BLUME® ER309LSi is suitable for welding stainless 022Cr24Ni13 steel and commonly used in applications within the petrochemical industry.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Tensile Strength, MPa	595	
Elongation, % (L=4d)	38	

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.021	2.33	0.78	0.014	0.012
	Cr	Ni	Мо	Cu	-
As Welded	23.93	13.84	0.046	0.19	-





ASME SFA/AWS A5.9 ER309LSi

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING





ASME SFA/AWS A5.9 ER309Mo

SHIELDING GAS

WELDING POSITION

All Position

and

TYPICAL APPLICATION

steel

99% - 97% Ar + 1% - 3% O2

BLUME® ER309Mo is suitable for welding

commonly used in the construction

stainless

Cr24Ni13Mo

machinery industry.

DESCRIPTION

BLUME® ER309Mo is a mixed gas-shielded MIG welding wire made from 24Cr-13Ni-Mo austenitic stainless steel. It offers excellent welding characteristics, including a smooth arc, low spatter, consistent wire feeding, and a clean, well-shaped bead. Suitable for all-position welding, it provides strong crack resistance and is ideal for joining carbon steel to dissimilar stainless steels, as well as martensitic and ferritic stainless steels with limited

toughness.				
MECHANICAL PROPERTIES				
	As-Welded with CO2			
Tensile Strength, MPa	585			
Elongation, % (L=4d)	36			

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.085	1.93	0.38	0.017	0.009
	Cr	Ni	Мо	Cu	-
As Welded	23.54	12.40	2.31	0.04	-





ASME SFA/AWS A5.9 ER309Mo

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps -			
.030" (0.8mm)	70 - 150	-		
.040" (1.0mm)	100 - 200	-		
.045" (1.2mm)	140 - 220	-		

PACKAGING



ASME SFA/AWS A5.9 ER309LMo

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

All Position

TYPICAL APPLICATION

WELDING POSITION

DESCRIPTION

Stainless Steel MIG Wire

BLUME® ER309LMo is a mixed gas shielded MIG welding wire made from ultra-low carbon C-24Cr-13Ni-Mo austenitic stainless steel. It offers outstanding welding characteristics, including a stable arc, minimal spatter, smooth wire feeding, and excellent bead appearance. Suitable for allposition welding, it provides strong crack resistance and is ideal for applications such as high-temperature service components, cladding, and dissimilar metal welding.

BLUME® ER309LMo is suitable for welding 022Cr24Ni13 stainless steel, commonly utilized in construction machinery and related structural applications.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Tensile Strength, MPa	592	
Elongation, % (L=4d)	39	

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.022	1.92	0.38	0.015	0.010
	Cr	Ni	Мо	Cu	-
As Welded	23.58	12.80	2.33	0.06	-





ASME SFA/AWS A5.9 ER309LMo

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm) -			

PACKAGING





ASME SFA/AWS A5.9 ER310

WELDING POSITION

All Position

TYPICAL APPLICATION

SHIELDING GAS 99% - 97% Ar + 1% - 3% O2

DESCRIPTION

BLUME® ER310 is a gas-shielded MIG welding wire designed for 26Cr-21Ni austenitic stainless steel. It offers outstanding welding performance with a stable arc, minimal spatter, smooth wire feeding, and excellent bead appearance. Suitable for allposition welding, it provides strong crack resistance and is ideal for welding and repair of high-temperature and corrosion-resistant stainless steel castings of the same grade.

BLUME® ER310 is suitable for welding Cr25Ni20 stainless steel, this product is commonly used in industries such as coal mining machinery.

MECHANICAL PROPERTIES			
As-Welded with CO2			
Tensile Strength, MPa	588		
Elongation, % (L=4d)	37		

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.087	2.00	0.38	0.009	0.011
	Cr	Ni	Мо	Cu	-
As Welded	27.42	21.82	0.035	0.35	-





ASME SFA/AWS A5.9 ER310

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING





ASME SFA/AWS A5.9 ER316
SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

TYPICAL APPLICATION

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER316 is a gas-shielded MIG welding wire composed of 19Cr-12Ni-2Mo austenitic stainless steel. It delivers excellent welding performance with a stable arc, low spatter, smooth wire feeding, and a clean, well-formed bead. Approved for all-position welding, it offers strong crack resistance and is well-suited for service environments containing acetic acid, sulfurous acid, phosphoric acid, and various salts.

BLUME® ER316 is suitable for welding 06Cr17Ni12Mo2 stainless steel and is widely used in applications across the petrochemical industry, construction machinery, and related sectors.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Tensile Strength, MPa	580	
Elongation, % (L=4d)	38	

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.048	1.75	0.45	0.010	0.011
	Cr	Ni	Мо	Cu	-
As Welded	19.63	12.52	2.50	0.06	-





ASME SFA/AWS A5.9 ER316

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING





ASME SFA/AWS A5.9 ER316L

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

99% - 97% Ar + 1% - 3% O2

DESCRIPTION

BLUME® ER316L is a mixed gas shielded MIG welding wire made from ultra-low carbon 19Cr-12Ni-2Mo austenitic stainless steel. It offers excellent welding characteristics, including a stable arc, low spatter, smooth wire feeding, and clean bead appearance. Suitable for all-position welding, it provides strong resistance to cracking and is ideal for applications exposed to corrosive environments containing acetic acid, sulfurous acid, phosphoric acid, and various salts.

BLUME® ER316L is suitable for welding 022Cr19Ni12Mo2 stainless steel and is widely used in industries such as petrochemicals and construction machinery.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Tensile Strength, MPa	575	
Elongation, % (L=4d)	37	

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.023	1.90	0.42	0.008	0.009
	Cr	Ni	Мо	Cu	-
As Welded	19.12	12.59	2.59	0.28	-





ASME SFA/AWS A5.9 ER316L

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING



ASME SFA/AWS A5.9 ER317

SHIELDING GAS

steel,

WELDING POSITION

All Position

construction

and

TYPICAL APPLICATION

BLUME® ER317 is suitable for welding

commonly used in industries such as

06Cr17Ni12Mo3

petrochemicals

machinery.

stainless

and

99% - 97% Ar + 1% - 3% O2

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER317 is a gas-shielded MIG welding wire made of 19Cr-14Ni-3Mo austenitic stainless steel, offering excellent weldability with a stable arc, minimal spatter, smooth wire feed, and clean bead appearance. It supports all-position welding and provides strong crack resistance. Ideal for applications exposed to corrosive environments containing acetic acid, sulfurous acid, phosphoric acid, and various salts.

MECHANICAL PROPERTIES		
	As-Welded with CO2	
Tensile Strength, MPa	580	
Elongation, % (L=4d)	38	

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.048	1.75	0.45	0.014	0.015
	Cr	Ni	Мо	Cu	-
As Welded	19.63	13.52	3.54	0.06	-





ASME SFA/AWS A5.9 ER317

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING





ASME SFA/AWS A5.9 ER317L

SHIELDING GAS

WELDING POSITION

All Position

99% - 97% Ar + 1% - 3% O2

TYPICAL APPLICATION

BLUME® ER317 is suitable for welding

OCr19Ni13Mo3 and is commonly used in

the fields such as petrochemical industry

and construction machinery.

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER317L is a mixed gas shielded MIG welding wire made of ultra-low carbon 19Cr-14Ni-3Mo austenitic stainless steel. It offers excellent weldability with a stable arc, minimal spatter, smooth wire feed, and a clean bead profile. Approved for all-position welding, it provides strong crack resistance and is well-suited for applications involving corrosive environments such as acetic acid, sulfurous acid, phosphoric acid, and various calte

various saits.			
MECHANICAL PROPERTIES			
	As-Welded with CO2		
Tensile Strength, MPa	585		
Elongation, % (L=4d)	35		

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.048	1.75	0.45	0.014	0.015
	Cr	Ni	Мо	Cu	-
As Welded	19.63	13.52	3.54	0.06	-





ASME SFA/AWS A5.9 ER317L

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps -		
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING





ASME SFA/AWS A5.9 ER347

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

99% - 97% Ar + 1% - 3% O2

DESCRIPTION

BLUME® ER347 is a gas-shielded MIG welding wire composed of 20Cr-10Ni-Nb austenitic stainless steel. It offers excellent welding characteristics, including a stable arc, low spatter, smooth wire feeding, and a clean weld appearance. Suitable for all-position welding, it provides strong crack resistance and is ideal for applications requiring corrosion-resistant welds.

BLUME® ER347 is suitable for welding 07Cr19Ni11Nb and 07Cr18Ni11Nb stainless steels, and is widely used in industries such as food processing, medical equipment, pressure vessels, and petrochemicals.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Tensile Strength, MPa	566	
Elongation, % (L=4d)	38	

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.027	1.80	0.40	0.012	0.015
	Cr	Ni	Мо	Cu	-
As Welded	20.39	9.92	0.44	0.33	-





ASME SFA/AWS A5.9 ER347

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING





ASME SFA/AWS A5.9 ER385

SHIELDING GAS

WELDING POSITION

All Position

construction

TYPICAL APPLICATION

99% - 97% Ar + 1% - 3% O2

BLUME® ER385 is suitable for welding

Cr20Ni25Mo4Cu stainless steel, this wire is

in

used

machinery and related applications.

commonly

DESCRIPTION

BLUME® ER385 is a mixed gas-shielded MIG welding wire composed of 20Cr-25Ni-5Mo-2Cu austenitic stainless steel. It offers excellent welding characteristics, including a stable arc, minimal spatter, smooth wire feed, and a clean bead profile. Suitable for all-position welding, it provides strong crack resistance and is ideal for applications requiring resistance to corrosion and halidecontaining environments.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Tensile Strength, MPa	545	
Elongation, % (L=4d)	35	

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.020	1.45	0.42	0.012	0.018
	Cr	Ni	Мо	Cu	-
As Welded	20.12	24.65	4.50	0.06	-





ASME SFA/AWS A5.9 ER385

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING





ASME SFA/AWS A5.9 ER410

SHIELDING GAS

99% - 97% AI + 1% - 3% OZ

WELDING POSITION

All Position

TYPICAL APPLICATION

99% - 97% Ar + 1% - 3% O2

DESCRIPTION

BLUME® ER410 is a mixed gas shielded MIG welding wire made of 13Cr martensitic stainless steel. It delivers excellent welding characteristics including a stable arc, minimal spatter, smooth wire feeding, and clean bead appearance. Suitable for all-position welding, it offers strong crack resistance and is ideal for applications requiring both wear and corrosion resistance.

BLUME® ER410 is suitable for welding 1Cr13 stainless steel, this wire is commonly used in hydropower and related industrial applications.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Tensile Strength, MPa	689	
Elongation, % (L=4d)	29	

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.080	0.41	0.30	0.011	0.021
	Cr	Ni	Мо	Cu	-
As Welded	11.83	0.19	0.35	0.33	-





ASME SFA/AWS A5.9 ER410

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	- -	

PACKAGING





ASME SFA/AWS A5.9 ER430

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

BLUME® ER430 is suitable for welding

10Cr17 stainless steel, it is commonly used

in industries such as food processing and

medical equipment manufacturing.

99% - 97% Ar + 1% - 3% O2

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER430 is a mixed gas shielded MIG welding wire made from 17Cr ferritic stainless steel. It delivers excellent welding performance with a stable arc, minimal spatter, smooth wire feeding, and a clean weld bead appearance. Suitable for allposition welding, it offers good crack resistance and is ideal for applications requiring wear resistance.

MECHANICAL PROPERTIES		
As-Welded with CO2		
Tensile Strength, MPa	565	
Elongation, % (L=4d)	28	

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.035	0.43	0.35	0.018	0.012
	Cr	Ni	Мо	Cu	-
As Welded	16.39	0.22	0.55	0.21	-





ASME SFA/AWS A5.9 ER430

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 150	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	140 - 220	-	

PACKAGING





ASME SFA/AWS A5.9 ER630

WELDING POSITION

TYPICAL APPLICATION

SHIELDING GAS 99% - 97% Ar + 1% - 3% O2

BLUME® ER630 is suitable for welding

corrosion-resistant components of steam

turbines and is commonly used in

locomotive and vehicle manufacturing.

All Position

DESCRIPTION

BLUME® ER630 is a gas-shielded MIG welding wire made from 17Cr-4Ni-4Cu-Nb martensitic stainless steel. It offers excellent welding characteristics, including a stable arc, low spatter, smooth wire feeding, and a clean weld bead appearance. Suitable for all-position welding, it provides strong crack resistance and is ideal for applications requiring corrosion resistance

requiring corrosion resistance.				
MECHANICAL PROPERTIES				
	As-Welded with CO2			
Tensile Strength, MPa	988			
Elongation, % (L=4d)	12			

Stainless Steel MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)						
	C Mn Si S P					
As Welded	0.032	0.50	0.32	0.011	0.012	
	Cr	Ni	Мо	Cu	-	
As Welded	16.55	4.63	0.45	3.40	-	





ASME SFA/AWS A5.9 ER630

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps	-		
.030" (0.8mm)	70 - 150	-		
.040" (1.0mm)	100 - 200	-		
.045" (1.2mm)	140 - 220	-		

PACKAGING





ASME SFA/AWS A5.9 ER2209 SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

BLUME® ER630 is suitable for welding

commonly used in industries such as

petrochemicals, shipbuilding, and related

this

022Cr22Ni5Mo3N,

applications.

99% - 97% Ar + 1% - 3% O2

product

Stainless Steel MIG Wire

DESCRIPTION

BLUME® ER2209 is a mixed gas shielded MIG welding wire made from 22Cr-9Ni-3Mo-N duplex (austenitic-ferritic) stainless steel. It offers excellent welding characteristics, including a stable arc, low spatter, smooth wire feed, and a clean bead profile. Suitable for all-position welding, it provides strong crack resistance and is ideal for joining duplex stainless steels

Stall liess steers.				
MECHANICAL PROPERTIES				
	AWS Requirement	As-Welded with CO2		
Tensile Strength, MPa		730		
Elongation, % (L=4d)		26		

UNDILUTED WELD METAL ANALYSIS (WT%)						
	C Mn Si S P					
As Welded	0.023	1.62	0.40	0.009	0.011	
	Cr	Ni	Мо	Cu	-	
As Welded	22.5	8.75	3.23	0.18	-	





ASME SFA/AWS A5.9 ER2209

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps	-		
.030" (0.8mm)	70 - 150	-		
.040" (1.0mm)	100 - 200	-		
.045" (1.2mm)	140 - 220	-		

PACKAGING





ASME SFA/AWS A5.9 ER2594

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

99% - 97% Ar + 1% - 3% O2

DESCRIPTION

Stainless Steel MIG Wire

BLUME® ER2594 is a mixed gas shielded MIG welding wire designed for austenitic-ferritic duplex stainless steel. It delivers excellent welding performance, featuring a stable arc, low spatter, smooth wire feeding, and a clean bead appearance. Suitable for all-position welding, it offers strong crack resistance and is ideal for welding duplex stainless steel materials.

BLUME® ER2594 is suitable for welding 022Cr25Ni10Mo3N, this product is widely used in industries such as petrochemicals, shipbuilding, and related applications.

MECHANICAL PROPERTIES			
As-Welded with CO2			
Tensile Strength, MPa	830		
Elongation, % (L=4d)	27		

UNDILUTED WELD METAL ANALYSIS (WT%)						
	C Mn Si S P					
As Welded	0.021	2.10	0.56	0.009	0.011	
	Cr	Ni	Мо	Cu	-	
As Welded	25.6	9.75	3.25	0.15	-	





ASME SFA/AWS A5.9 ER2594

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Stainless Steel MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps	-		
.030" (0.8mm)	70 - 150	-		
.040" (1.0mm)	100 - 200	-		
.045" (1.2mm)	140 - 220	-		

PACKAGING



DESCRIPTION



CONFORMANCE

ASME SFA/AWS A5.14 ERNiCr-3

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

99% - 97% Ar + 1% - 3% O2

BLUME® ERNiCr-3 is a MIG welding wire known for its excellent corrosion resistance and strong crack resistance in the weld bead.

BLUME® ERNiCr-3 is suitable for welding nickel-based and iron-nickel-based hightemperature, corrosion-resistant such as Inconel 600 and Incoloy 800, and also applicable for joining dissimilar steels.

MECHANICAL PROPERTIES			
As-Welded with CO2			
Yield Strength, MPa	384		
Tensile Strength, MPa	645		
Elongation, % (L=4d)	47		

Nickel Alloy MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)						
	С	Mn	Si	S	Р	Al
As Welded	0.038	3.40	0.14	0.003	0.003	0.01
	Cr	Ni	Nb	Cu	Fe	Ti
As Welded	21.0	70.28	2.50	0.15	0.79	0.40





ASME SFA/AWS A5.14 ERNiCr-3

SHIELDING GAS

99% - 97% Ar + 1% - 3% O2

WELDING POSITION

All Position

Nickel Alloy MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 190	-	
.040" (1.0mm)	100 - 200	-	
.045" (1.2mm)	160 - 280	-	
1/16" (1.6mm)	200 - 350	-	

PACKAGING





ASME SFA/AWS A5.14 ERNiCrMo-3

SHIELDING GAS

75% Argon and 25% Helium

WELDING POSITION

All Position

TYPICAL APPLICATION

Nickel Alloy MIG Wire

DESCRIPTION

BLUME® ERNiCrMo-3 provides excellent resistance to oxidising and reducing environments. The high molybdenum content provides good stress resistance, avoids pitting and corrosion resistance at crevices. The BLUME® ERNiCrMo-3 is a popular nickel alloy for cladding. Usually used with Argon + Helium.

BLUME® ERNiCrMo-3 used for MIG welding of nickel-chromium-molybdenum alloys. This filler metal may be used for cladding and welding of dissimilar base metals such as nickel-chromium-molybdenum alloys to stainless and carbon steels.

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.01	0.108	0.0036	0.001	0.003
	Cr	Ni	Cu	Ti	Al
As Welded	22.40	64.00	0.001	0.151	0.15
	Nb	Fe	Мо	-	-
As Welded	3.60	0.40	8.80	-	-

SUGGESTED WELDING PARAMETERS				
Diameter	Volts	Amps		
.045" (1.2mm)	28 - 32	180 - 220		
1/16" (1.6mm)	29 - 33	200 - 250		





CONFORMANCE ASME SFA/AWS A5.14 ERNiCrMo-3

SHIELDING GAS

75% Argon and 25% Helium

WELDING POSITION

All Position

PACKAGING

Nickel Alloy MIG Wire

33 lbs (15 kgs) [Net Weight] Plastic spools with OD = 11" (270mm)





ASME SFA/AWS A5.14 ERNiCrMo-4

SHIELDING GAS

All Position

75% Argon and 25% Helium **WELDING POSITION**

BLUME® ERNiCrMo-4 is suitable for

welding Ni-Cr-Mo alloys, as well as for

dissimilar metal welding between steel

TYPICAL APPLICATION

Nickel Alloy MIG Wire

DESCRIPTION

BLUME® ERNiCrMo-4 produces welds with exceptional crack resistance and strong corrosion resistance in a wide range of aggressive particularly environments, offering protection against pitting and crevice corrosion.

excellent nickel-based alloys. It is also applicable for surfacing applications on steel. **MECHANICAL PROPERTIES**

	As-Welded with CO2
Yield Point, MPa	497
Tensile Strength, MPa	749
Elongation, % (L=4d)	41

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.008	0.35	0.05	0.002	0.005
	Cr	Ni	Cu	Со	w
As Welded	15.0	56.8	0.03	0.03	3.69
	V	Мо	Fe	-	-
As Welded	0.02	16.55	6.0	-	-





CONFORMANCE ASME SFA/AWS A5.14 ERNiCrMo-4

SHIELDING GAS

75% Argon and 25% Helium

WELDING POSITION

All Position

Nickel Alloy MIG Wire

SUGGESTED WELDING PARAMETERS			
Diameter	Amps	-	
.030" (0.8mm)	70 - 190	-	
.035" (0.9mm)	100 - 200	-	
.045" (1.2mm)	160 - 280	-	
1/16" (1.6mm)	200 - 350	-	

PACKAGING

33 lbs (15 kgs) [Net Weight] Plastic spools with OD = 11" (270mm)





ASME SFA/AWS A5.14 ERNiCrMo-10

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

75% Argon and 25% Helium

DESCRIPTION

BLUME® ERNiCrMo-10 produces welds with exceptional crack resistance, excellent hightemperature strength, and strong corrosion resistance in a variety of aggressive environments -particularly effective against pitting and crevice corrosion.

BLUME® ERNiCrMo-10 is suitable for welding Ni-Cr-Mo alloys such as No6022, as well as for dissimilar welding between steel and nickel-based alloys, and for surfacing applications on steel.

MECHANICAL PROPERTIES			
	As-Welded with CO2		
Yield Point, MPa	541		
Tensile Strength, MPa	755		
Elongation, % (L=4d)	40.5		

Nickel Alloy MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.008	0.18	0.05	0.003	0.005
	Cr	Ni	Cu	Со	w
As Welded	22.0	57.7	0.02	0.03	3.20
	V	Мо	Fe	-	-
As Welded	0.02	13.85	2.58	-	-





CONFORMANCE ASME SFA/AWS A5.14 ERNiCrMo-10

SHIELDING GAS

75% Argon and 25% Helium

WELDING POSITION

All Position

Nickel Alloy MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Amps	-		
.030" (0.8mm)	70 - 190	-		
.035" (0.9mm)	100 - 200	-		
.045" (1.2mm)	160 - 280	-		
1/16" (1.6mm)	200 - 350	-		

PACKAGING





ASME SFA/AWS A5.14 ERNi-1

SHIELDING GAS

WELDING POSITION

All Position

100% Ar; 0.5% + 95% He + Ar

TYPICAL APPLICATION

Nickel Alloy MIG Wire

DESCRIPTION

BLUME® ERNi-1 Provides welds with excellent resistance to cracking and outstanding corrosion resistance, particularly in alkaline environments.

BLUME® ERNi-1 is suitable for welding commercially pure nickel forgings and castings, such as Nickel 200 and 201. It can also be used for joining copper-nickel alloys, nickel-based alloys, and iron-based alloys.

MECHANICAL PROPERTIES			
	As-Welded with CO2		
Yield Point, MPa	340		
Tensile Strength, MPa	541		
Elongation, % (L=4d)	36		

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.005	0.47	0.30	0.002	0.003
	Ni	Cu	Fe	Al	Ti
As Welded	95.87	0.014	0.098	0.60	2.38





ASME SFA/AWS A5.14 ERNi-1

SHIELDING GAS

100% Ar; 0.5% + 95% He + Ar

WELDING POSITION

All Position

Nickel Alloy MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Flat and Horizontal	Vertical Up		
	Amps	Amps		
.030" (0.8mm)	70 - 150	70 - 120		
.035" (0.9mm)	100 - 200	100 - 170		
.045" (1.2mm)	140 - 220	140 - 200		
1/16" (1.6mm)	180 - 300	180 - 250		

PACKAGING





ASME SFA/AWS A5.14 ERNiCu-7

SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

100% Ar; 0.5% + 95% He + Ar

BLUME® ERNiCu-7 is suitable for welding

Monel-series nickel-copper alloys. It offers

excellent corrosion resistance in seawater

and alkaline salt environments, making it

ideal for use in marine engineering,

Nickel Alloy MIG Wire

DESCRIPTION

BLUME® ERNiCu-7 is a MIG welding wire designed for nickel-copper alloys such as Monel® 400 and R405. It offers excellent corrosion resistance in seawater and alkaline environments, along with good crack resistance and weldability.

shipbuilding, and the chemical industry. **MECHANICAL PROPERTIES** As-Welded with CO2 Yield Point, MPa 320 Tensile Strength, MPa 529 Elongation, % (L=4d) 39

UNDILUTED WELD METAL ANALYSIS (WT%)					
	С	Mn	Si	S	P
As Welded	0.002	3.10	0.173	0.005	0.003
	Ni	Cu	Fe	Al	Ti
As Welded	64.8	28.45	0.10	0.19	2.50





ASME SFA/AWS A5.14 ERNiCu-7

SHIELDING GAS

100% Ar; 0.5% + 95% He + Ar

WELDING POSITION

All Position

Nickel Alloy MIG Wire

SUGGESTED WELDING PARAMETERS					
Diameter Flat and Horizontal Vertical Up					
	Amps	Amps			
.030" (0.8mm)	70 - 150	70 - 120			
.035" (0.9mm)	100 - 200	100 - 170			
.045" (1.2mm)	140 - 220	140 - 200			
1/16" (1.6mm)	180 - 300	180 - 250			

PACKAGING





ASME SFA/AWS A5.10 ER1070

SHIELDING GAS

100% Ar or 75% Ar + 25% He

WELDING POSITION

TYPICAL APPLICATION

BLUME® ERNiCu-7 is suitable for welding

pure aluminum or low-alloy aluminum

materials, commonly used in industries

such as railway locomotives, electric

power, chemical processing, and food

production.

All Position

DESCRIPTION

BLUME® ER1070 is a pure aluminum welding wire containing ≥99.7% Al. It offers excellent welding characteristics, including a stable arc, minimal spatter, and a clean, bright weld appearance. The deposited metal delivers superior electrical and conductivity along with thermal excellent machinability. Outstanding resistance to chemical corrosion and cracking. Excellent color match after anodizing.

MECHANICAL PROPERTIES			
	As-Welded with CO2		
Yield Point, MPa	320		
Tensile Strength, MPa	529		
Elongation, % (L=4d)	39		

Aluminum MIG Wire

UNDILUTED WELD METAL ANALYSIS (WT%)					
	Mn	Si	Fe	Cu	Mg
As Welded	0.003	0.06	0.08	0.006	0.005
Zn V Ti Al Be					
As Welded	0.001	0.005	0.008	99.70	0.0001





ASME SFA/AWS A5.10 ER1070

SHIELDING GAS

100% Ar; 0.5% + 95% He + Ar

WELDING POSITION

All Position

Aluminum MIG Wire

SUGGESTED WELDING PARAMETERS				
Diameter	Flat and Horizontal	Vertical Up		
	Amps	Amps		
.030" (0.8mm)	70 - 150	70 - 120		
.035" (0.9mm)	100 - 200	100 - 170		
.045" (1.2mm)	140 - 220	140 - 200		
1/16" (1.6mm)	180 - 300	180 - 250		

PACKAGING





ASME SFA/AWS A5.10 ER4043

SHIELDING GAS

WELDING POSITION

TYPICAL APPLICATION

100% Ar or 75% Ar + 25% He

All Position

DESCRIPTION

BLUME® ER4043 is a aluminium welding wire. Tailored for welding heat-treatable base alloys, particularly the 6XXX series, this filler alloy exhibits a lower melting point and greater fluidity compared to the 5XXX series. It demonstrates low susceptibility to weld cracking when used with 6XXX series base alloys and is appropriate for continuous elevated temperature applications surpassing 65° C (150° F). However, it's not advisable for materials intended for anodization.

6XXX alloys and the majority of casting it's commonly employed in automotive components like frames and drive shafts, as well as in constructing bicycle frames.

BLUME® ER4043 is suitable for welding

UNDILUTED WELD METAL ANALYSIS (WT%)						
	Al Mn Si Fe Cu					
As Welded	Bal	0.009	4.5 - 6.0	0.16	0.009	
	Mg	Zn	Ti	Ве	Cr	
As Welded	0.007	0.005	0.068	0.0001	-	

Aluminum MIG Wire

SUGGESTED WELDING PARAMETERS					
Diameter Flat Vertical Up Overhead					
	Amps	Amps	Amps		
.045" (1.2mm)	80 - 350	120 - 160	120 - 160		





SHIELDING GAS

100% Ar or 75% Ar + 25% He

WELDING POSITION

All Position

Aluminum MIG Wire

SUGGESTED WELDING PARAMETERS						
Diameter	meter Flat Vertical Up Overhead					
	Amps Amps Amps					
1/16" (1.6mm)	350 - 500	120 - 220	110 - 210			

PACKAGING



DESCRIPTION



CONFORMANCE

ASME SFA/AWS A5.10 ER4047

SHIELDING GAS

100% Ar or 75% Ar + 25% He

All Position

WELDING POSITION

TYPICAL APPLICATION

BLUME® ER4047 is a eutectic aluminum-silicon welding wire containing approximately 12% silicon. It delivers excellent welding performance, featuring a stable arc, low spatter, and a clean, bright weld appearance. Compared to ER4043, ER4047 offers a lower melting point and a narrower solidification range, resulting in improved molten pool fluidity. These properties help minimize the risk of hot cracking and enhance the shear strength of fillet welds.

BLUME® ER4043 is suitable for welding a wide range of cast and extruded aluminum alloys, including thin aluminum components, condensers, air conditioning tubing, automotive radiators, and fuel or oil tanks.

UNDILUTED WELD METAL ANALYSIS (WT%)					
	Al Mn Si Fe Cu				
As Welded	Bal	0.004	12.1	0.15	0.006
Mg Zn Be					
As Welded	0.020	0.005	0.0001	-	-

Aluminum MIG Wire

SUGGESTED WELDING PARAMETERS						
Diameter	Diameter Flat Vertical Up Overhead					
	Amps	Amps	Amps			
.045" (1.2mm)	80 - 350	120 - 160	120 - 160			

PACKAGING





100% Ar or 75% Ar + 25% He

All Position

TYPICAL APPLICATION

ASME SFA/AWS A5.10 ER5356 **SHIELDING GAS**

WELDING POSITION

DESCRIPTION

BLUME® ER5356 is a general-purpose aluminumwelding wire containing magnesium approximately 5% magnesium. It offers excellent welding characteristics, including a stable arc, low spatter, and a clean, bright weld appearance. Ideal for welding or overlaying cast and wrought aluminum alloys containing 5% magnesium, delivering high strength, good ductility, and outstanding corrosion resistance.

BLUME® ER5356 is suitable for welding Al-Mg, Al-Mg-Zn, Al-Mg-Mn, and Al-Mg-Si alloys used in automotive components, shipbuilding, railway vehicles, chemical pressure vessels, general manufacturing, and related industries.

UNDILUTED WELD METAL ANALYSIS (WT%)					
	Al Mn Si Fe Cu				
As Welded	Bal	0.12	0.04	0.15	0.016
	Mg	Zn	Ве	-	-
As Welded	4.80	0.004	0.0001	-	-

Aluminum MIG Wire

SUGGESTED WELDING PARAMETERS					
Diameter	Flat	Vertical Up	Overhead		
	Amps	Amps	Amps		
.045" (1.2mm)	80 - 350	120 - 160	120 - 160		
1/16" (1.6mm)	350 - 500	120 - 220	110 - 210		





SHIELDING GAS

100% Ar or 75% Ar + 25% He

WELDING POSITION

All Position

PACKAGING

Aluminum MIG Wire





SHIELDING GAS

WELDING POSITION

All Position

TYPICAL APPLICATION

100% Ar or 75% Ar + 25% He

BLUME® ER5356 is suitable for welding Al-

Mg, Al-Mg-Zn, Al-Mg-Mn, and Al-Mg-Si

alloys used in automotive components,

shipbuilding, railway vehicles, chemical

pressure vessels, general manufacturing,

and related industries.

Aluminum MIG Wire

DESCRIPTION

BLUME® ER5356 is a general-purpose aluminumwelding wire containing magnesium approximately 5% magnesium. It offers excellent welding characteristics, including a stable arc, low spatter, and a clean, bright weld appearance. Ideal for welding or overlaying cast and wrought aluminum alloys containing 5% magnesium, delivering high strength, good ductility, and outstanding corrosion resistance.

actionally corresponded.					
UNDILUTED WELD METAL ANALYSIS (WT%)					
	Al	Mn	Si	Fe	Cu
As Welded	Bal	0.12	0.04	0.15	0.016
	Mg	Zn	Ве	-	-
As Welded	4.80	0.004	0.0001	-	-

SUGGESTED WELDING PARAMETERS					
Diameter	Flat Vertical Up Overhead				
	Amps	Amps	Amps		
.045" (1.2mm)	80 - 350	120 - 160	120 - 160		
1/16" (1.6mm)	350 - 500	120 - 220	110 - 210		





SHIELDING GAS

100% Ar or 75% Ar + 25% He

WELDING POSITION

All Position

PACKAGING

Aluminum MIG Wire