



Blueshield Crystal aluminum wire and rods are manufactured to the highest quality standards and undergo unique testing methods in order to ensure maximum feedability and weld quality.

Our Blueshield Crystal is your best choice to achieve the best possible welds: every time, every spool.

## Blueshield Aluminum Wire for GMAW (MIG)

NAME	AWS CLASS	DESCRIPTION	DIAMETER		PACKAGING			ITEM NUMBER
			mm	in	kg	lb		
CRYSTAL 4043	ER4043	Alloy 4043 is one of the most widely used general-purpose aluminum welding alloys containing silicon to lower the melting point and improve fluidity and wetting action. Blueshield Crystal 4043 produces a bright weld with very good appearance and offers excellent resistance to weld cracking.	0.8	0.030	0.45	1	Spool	BLU-20443108 BLU-20443109 BLU-20443112
			0.9	0.035				
CRYSTAL 4043	ER4043	Alloy 4043 is one of the most widely used general-purpose aluminum welding alloys containing silicon to lower the melting point and improve fluidity and wetting action. Blueshield Crystal 4043 produces a bright weld with very good appearance and offers excellent resistance to weld cracking.	1.2	3/64	9.1	20	Spool	BLU-20443808 BLU-20443809 BLU-20443812 BLU-20443816
			0.8	0.030				
			0.9	0.035				
			1.2	3/64				
CRYSTAL 5356	ER5356	Alloy 5356 is the most popular of the high-magnesium welding filler metal alloys and is typically chosen for its relatively high strength and good feedability characteristics. Blueshield Crystal 5356 has high compatibility with many base metals and is suitable for many applications, but is not recommended for elevated temperature service above 65°C (150°F).	1.6	1/16	9.1	20	Spool	BLU-20456108 BLU-20456109 BLU-20456112
			0.8	0.030				
			0.9	0.035				
			1.2	3/64				
CRYSTAL 5356	ER5356	Alloy 5356 is the most popular of the high-magnesium welding filler metal alloys and is typically chosen for its relatively high strength and good feedability characteristics. Blueshield Crystal 5356 has high compatibility with many base metals and is suitable for many applications, but is not recommended for elevated temperature service above 65°C (150°F).	1.6	1/16	9.1	20	Spool	BLU-20456808 BLU-20456809 BLU-20456812 BLU-20456816
			0.8	0.030				
			0.9	0.035				
			1.2	3/64				
CRYSTAL 4047	ER4047	Alloy 4047 was originally designed for brazing and has a higher silicon content than alloy 4043 which increases fluidity, reduces shrinkage and minimizes hot-cracking. Blueshield Crystal 4047 can sustain relatively elevated service temperatures and is often used in the automotive industry.	1.2	0.045	7.3	16	Spool	BLU-20447612 BLU-20447616
			1.6	1/16				

NOTE: 4043 and 5356 grades are CWB certified to CSA.  
Blueshield aluminum may meet code requirements other than those listed.  
Please consult your local representative for a complete listing of the current code certifications of our electrodes.

## Blueshield Aluminum Rod for GTAW (TIG)

NAME	AWS CLASS	DESCRIPTION	DIAMETER		PACKAGING			ITEM NUMBER
			mm	in	kg	lb		
CRYSTAL 4043	ER4043	Alloy 4043 is one of the most widely used general-purpose aluminum welding alloys containing silicon to lower the melting point and improve fluidity and wetting action. Blueshield Crystal 4043 produces a bright weld with very good appearance and offers excellent resistance to weld cracking.	1.6	1/16	4.5	10	Box	BLU-20343416 BLU-20343424 BLU-20343432
			2.4	3/32				
			3.2	1/8				
CRYSTAL 5356	ER5356	Alloy 5356 is the most popular of the high-magnesium welding filler metal alloys and is typically chosen for its relatively high strength and good feedability characteristics. Blueshield Crystal 5356 has high compatibility with many base metals and is suitable for many applications, but is not recommended for elevated temperature service above 65°C (150°F).	1.6	1/16	4.5	10	Box	BLU-20356416 BLU-20356424 BLU-20356432
			2.4	3/32				
			3.2	1/8				

NOTE: 4043 and 5356 grades are CWB certified to CSA.  
Blueshield aluminum may meet code requirements other than those listed.  
Please consult your local representative for a complete listing of the current code certifications of our electrodes.