Certified wires

+GF+ AgieCharmilles

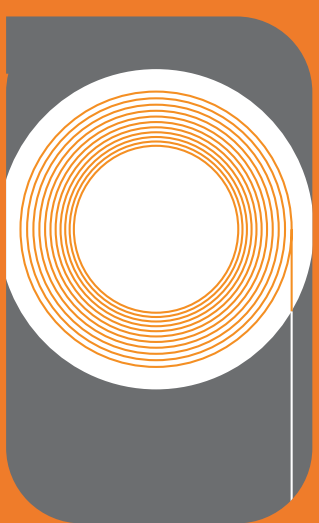
Did you know?

Using non-certified consumables or counterfeit parts can reduce the performance of EDM machining tools by up to 20%!

The competitiveness of your machine depends on the choice and quality of the consumables used.

Use of an non-approved wire may affect the reliability of your equipment.

GF AgieCharmilles research and development engineers and the market's most renowned wire manufacturers have worked together to develop and accredit wires that guarantee the performance of your machine.



The GF AgieCharmilles range of certified wires

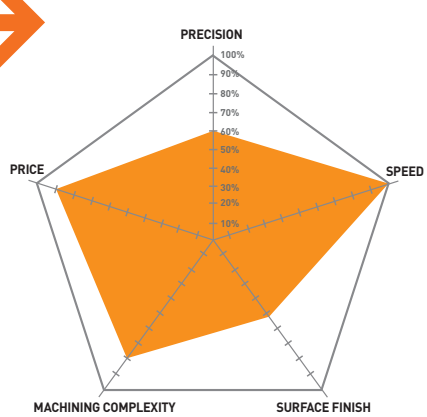
GF AgieCharmilles offers a wide choice of wires, perfectly adapted to your machining requirements.
A wire EDM machine has a very wide range of applications and the choice of wire is crucial in order to obtain the best productivity and optimum results in terms of speed, precision and surface finish.

Processes for technological development, product accreditation and production control in cooperation with its partners, ensure that you benefit from the quality commitment of a large manufacturing group.

GF AgieCharmilles certified EDM wires:

- **Enhance your production quality**
- **Guarantee the performance of your machine**
- **Optimize production costs**

In this catalog, the qualities of each wire are represented by a "radar" that will help you to make your choice according to the following 5 machining criteria:
- Precision
- Speed
- Surface finish
- Shape complexity
- Price

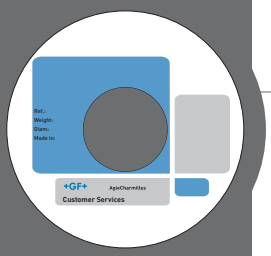


Example : AC SWX-CC

Contents

The wires listed below represent some of our most popular products.
If your application requires a different wire or spool size, please contact your AgieCharmilles representative for assistance.

AC Cut X and gamma type coated copper wires



AC Cut A / G coated brass wires

gamma phase and D wires

AC Brass wires

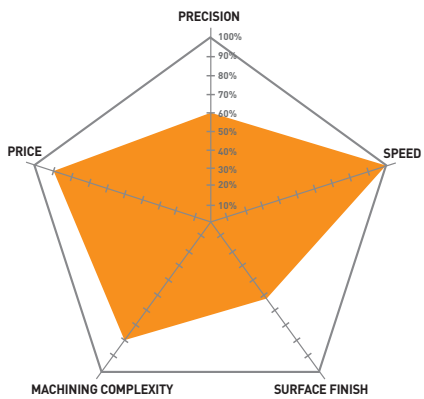
AC Fine Wires

Copper wire with a diffused zinc coating

AC SWX-CC

Description

This wire has been specifically developed for the FIL 240cc and 440cc generation of AgieCharmilles machines. Due to the performance of the generator in these machines, this wire enables exceptional cutting speeds of 500 mm2/mn to be achieved.



Application

In addition to its productivity, this wire reduces production costs. The wire is particularly recommended for machining mechanical parts by unit or in series and for machining high parts (H › 150 mm). This wire is also compatible with the other FIL type AgieCharmilles machines; it will increase machining speed by up to 15% in comparison with AC SWX type wire.

Properties

Material	Coating	Tensile	Elongation	Conductivity
Copper	CuZn	500 N/mm2	2 %	65 % IACS

Packaging

	Ø mm			Spool(s)/package
	0.25	0.30	0.33	
T 160 (8 kg)	X	X	X	2
T 200 (16 kg)	X	X	X	1
K 250 (25 kg)	X	X	X	1

Copper wire with a diffused zinc coating

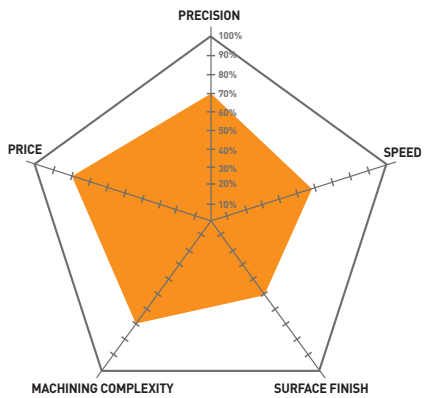
AC SWX

Description

This wire sets the benchmark in the area of high-performance. It enables machining speeds up to 25% faster than brass wire. This wire is highly effective when used for both standard and specific applications. SWX technology developed by AgieCharmilles delivers top results.

Application

This wire is intended for FIL series machines. Due to its productivity, this wire is used in many applications; it reduces production costs in the most varied and complex applications.



Properties

Material	Coating	Tensile	Elongation	Conductivity
Copper	CuZn	450 N/mm2	1 %	80 % IACS

Packaging

	Ø mm		Spool(s)/package
	0.25	0.30	
T 125/ B4 (4 kg)	X	X	4
T 160/ B8 (8 kg)	X	X	2
T 200/ B16 (16 kg)	X	X	1
K 250 (25 kg)	X	X	1

Copper wire with a diffused zinc coating

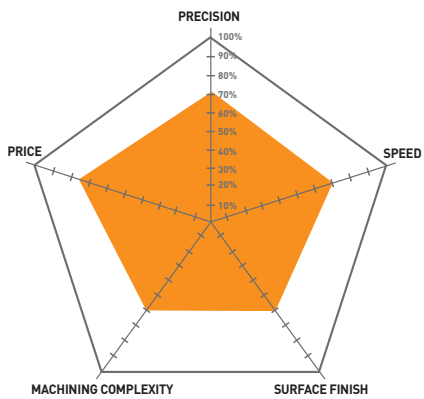
AC Cut TEX

Description

This high-performance wire represents a new generation of performance wire for EDM machines. This wire combines all the main qualities expected from an EDM wire.

Application

This wire is particularly intended for AgieCharmilles FIL series machines. It is perfectly compatible with AC SWX wire technology. This wire is recommended for a wide range of standard applications including molds, cutting tools or other applications that require the best precision and speed ratio.



Properties

Material	Coating	Tensile	Elongation	Conductivity
Copper	CuZn	450 N/mm^2	1 %	70 % IACS

Packaging

	Ø mm		Spool(s)/package
	0.25	0.30	
T 125 (4 kg)			
T 160 (8 kg)	X	X	2
T 200 (16 kg)	X	X	1
K 250 (25 kg)	X	X	1
P 15 (20 kg)	X	X	1

Copper wire with a diffused zinc coating

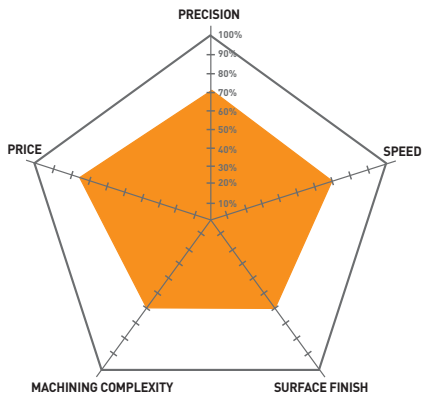
topas plus x

Description

This high-performance gamma phase x offers up to 35% higher cutting speed compared to traditional brass wire. This increased cutting speed is delivered with high precision.

Application

Developed specifically for AgieCharmilles machines with X wire technology, topas plus x is suitable for a wide range of applications.



Properties

Material	Coating	Tensile	Elongation	Conductivity
Copper	Zn Enriched Brass	500 N/mm^2	1 %	70 % IACS

Packaging

	Ø mm		Spool(s)/package
	0.25	0.30	
K 125 (4 kg)			
K 160 (8 kg)	X	X	2
K 200 (16 kg)	X	X	1
K 250 (25 kg)	X	X	1
P 15 (20 kg)	X	X	1

Zinc-coated brass wire

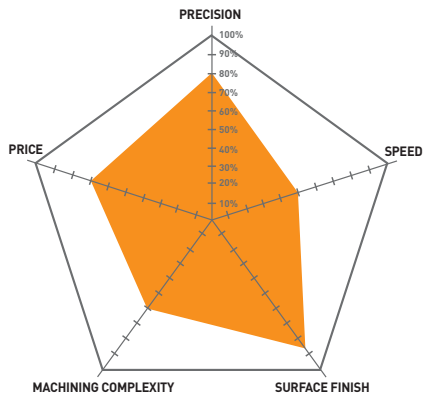
cobracut a cobracut

Description

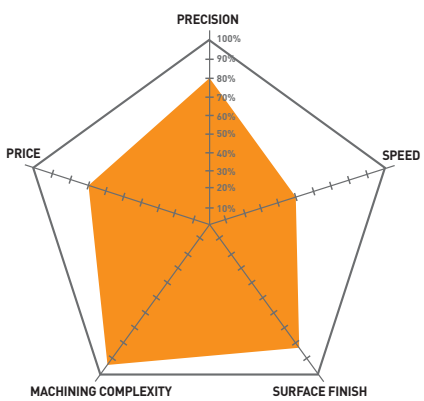
This high-performance wire was developed in order to attain greater machining performance than brass wire, with very good quality surface finishes. This brass-based wire has a very good performance to price ratio.

Application

cobracut a wire has excellent straightness and surface quality.
It is recommended for a wide range of standard applications including molds, cutting tools and general mechanical applications requiring high precision and excellent surface finish.
This wire is generally recommended for carbide machining.
cobracut wire is particularly suited to machining complex parts with wire angles of over 10°. The technical characteristics of this wire enable particularly good surface finishes to be achieved in difficult machining conditions.



cobracut a



cobracut

Properties

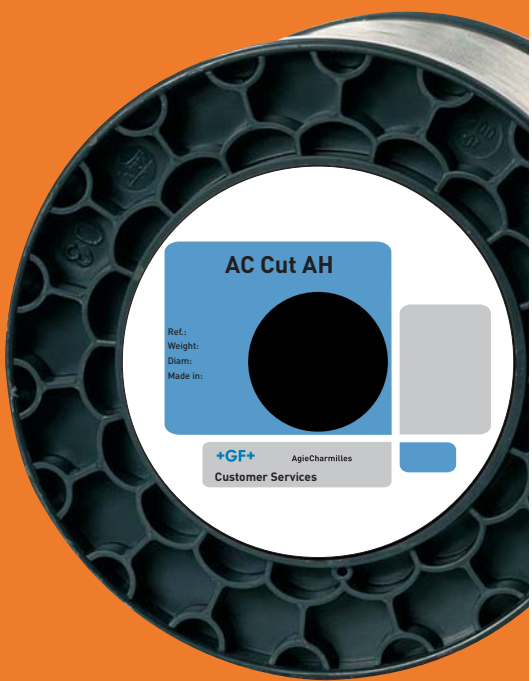
Wire	Material	Coating	Tensile	Elongation	Conductivity
cobracut a	CuZn 36	Zn	900 N/mm²	1.5 %	22 % IACS
cobracut	CuZn 36	Zn	500 N/mm²	15 %	25 % IACS

Packaging

	Ø mm						Spool(s)/ package
	0.07	0.10	0.15	0.20	0.25	0.30	
K 100	X	X	X				1
B4 (4 kg)		X	X	X	X	X	4
B8 (8 kg)			X	X	X	X	2
B16 (16 kg)				X	X	X	1
K 25 (25 kg)				X	X	X	1
P 5 (5 kg)		X	X	X	X	X	4
P 10 (10 kg)			X	X	X	X	2
P 15 (20 kg)				X	X	X	1

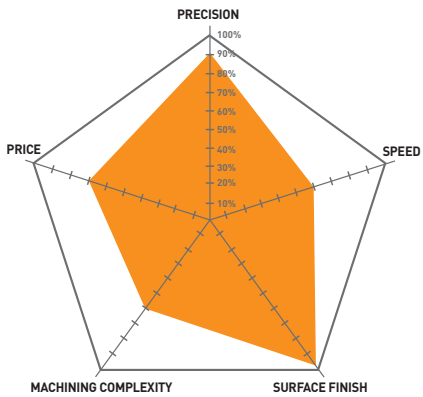
Brass wire with a zinc-based coating

AC Cut AH



Description

This high-performance wire has been developed exclusively for AgieCharmilles machines. Due to the high performance the latest series generator, it enables unequalled precision and surface finishes to be obtained.
(Ra 0.1µm)



Application

The mechanical resistance, coating and quality of production make this wire ideal for high-precision machining with extreme surface finish requirement. This wire is ideal for machining steel or carbide punches and dies. Using this wire lowers operating costs by reducing consumption of wear parts.

Properties

Material	Coating	Tensile	Conductivity
Brass	Special alloy	900 N/mm^2	21 % IACS

Packaging

	Ø mm				Spool(s)/ package
	0.10	0.15	0.20	0.25	
K 100	X	X			1
T 125 (4 kg)	X	X	X	X	4
T 160 (8 kg)		X	X	X	2
T 200 (16 kg)			X	X	1
K 250 (25 kg)				X	1

Zinc-coated brass wire

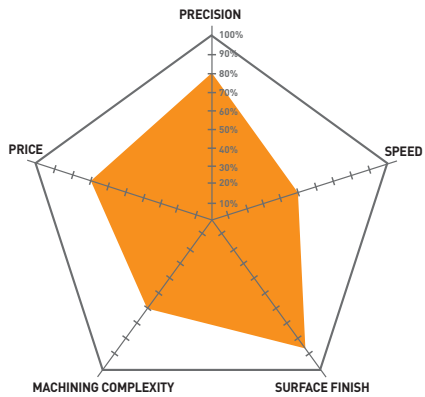
AC SW-A AC SW-S

Description

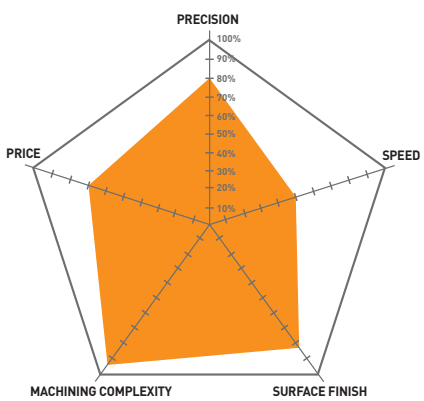
This high-performance wire was developed in order to attain greater machining performance than brass wire, with very good quality surface finishes. This brass-based wire has a very good performance to price ratio.

Application

AC SW- A wire has excellent straightness and surface quality.
It is recommended for a wide range of standard applications including molds, cutting tools and general mechanical applications requiring high precision and excellent surface finish.
This wire is generally recommended for carbide machining.
AC SW-S wire is particularly suited to machining complex parts with wire angles of over 10°. The technical characteristics of this wire enable particularly good surface finishes to be achieved in difficult machining conditions.



AC Cut A 900



AC Cut A 500

Properties

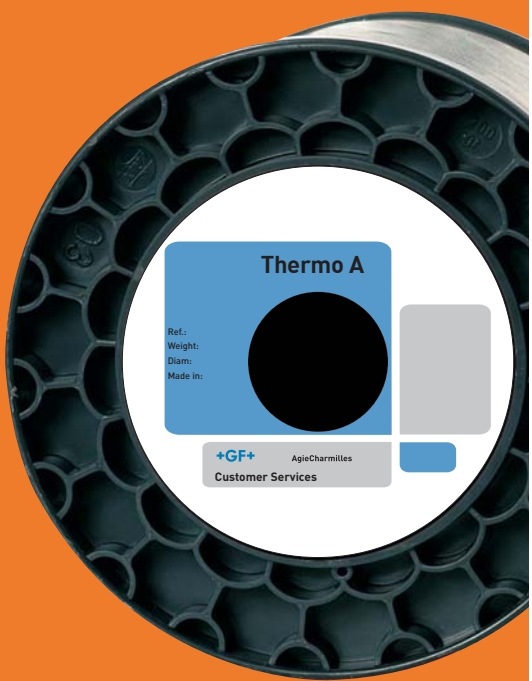
Wire	Material	Coating	Tensile	Elongation	Conductivity
AC SW-A	CuZn 37	Zn	900 N/mm²	1.5 %	22 % IACS
AC SW-S	CuZn 37	Zn	500 N/mm²	15 %	25 % IACS

Packaging

	Ø mm						Spool(s)/ package
	0.07	0.10	0.15	0.20	0.25	0.30	
K 100	X	X	X				1
T 125		X	X	X	X	X	4
T 160 (8 kg)			X	X	X	X	2
T 200 (16 kg)				X	X	X	1
K 250 (25 kg)				X	X	X	1
P 5 (5 kg)		X	X	X	X	X	4
P 10 (10 kg)			X	X	X	X	1
P 15 (20 kg)				X	X	X	1

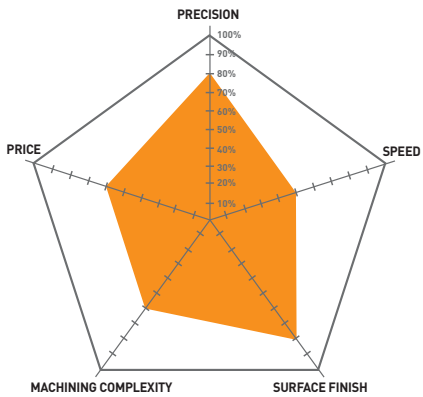
Zinc-coated brass wire

Thermo A



Description

This high-performance wire is made using an economical manufacturing process, which makes it very competitive for all machining operations. This wire combines all the main qualities expected from a coated brass wire.



Application

This wire can be used on all machines on the market. It is perfectly compatible with the standard technology used for A type coated brass wires. It is recommended for a wide range of standard applications in the areas of molds, cutting tools or general mechanics that require the best cost/ precision/surface finish ratio.

Properties

Material	Coating	Tensile	Elongation	Conductivity
CuZn 37	Zn	900 N/mm	1.5 %	22 % IACS

Packaging

	Ø mm			Spool(s)/package
	0.20	0.25	0.30	
T 160 (8 kg)	X	X	X	2
T 200 (16 kg)	X	X	X	1
K 250 (25 kg)		X	X	1
P 5 (5 kg)	X	X	X	4
P 10 (10 kg)	X	X	X	1
P 15 (20 kg)	X	X	X	1

Zinc-coated brass wire

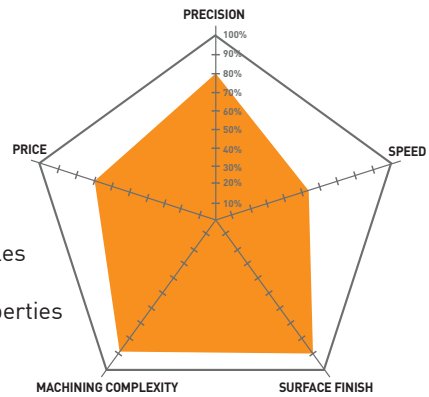
cobra cut g

Description

This high-performance wire has a specific surface coating which differentiates it from cobra cut A.

Application

This wire is particularly recommended for machining complex parts where the wire must be angled, utilizing AgieCharmilles machines with torroid guides. The specific coating of this wire and its mechanical properties ensure an excellent surface finish.



Properties

Material	Coating	Tensile	Elongation	Conductivity
CuZn 37	Zn	900 N/mm2	1.5 %	22 % IACS

Packaging

	Ø mm				Spool(s)/package
	0.15	0.20	0.25	0.30	
B4 (4 kg)	X	X	X	X	4
B8 (8 kg)	X	X	X	X	2
B16 (16 kg)	X	X	X	X	1
K 250 (25 kg)			X	X	1

Brass wire coated with a zinc-based alloy

Deltacut 900 Deltacut 500

Description

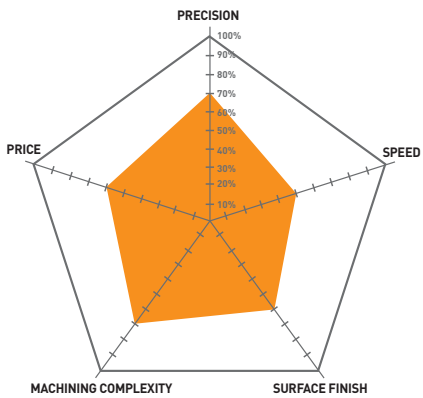
This wire has been developed to meet the demand for lower cost wire products.

Deltacut 900 increases productivity of wire machines while reducing the operating cost.

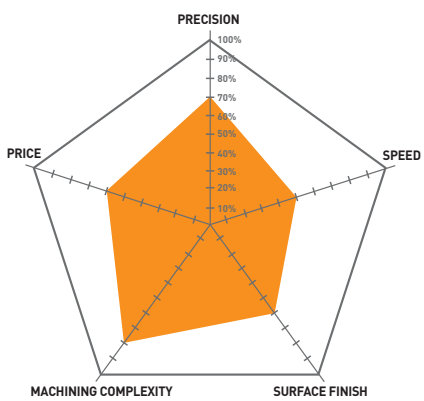
Application

This wire can be used on all machines . Its competitive pricing makes Deltacut 900 a product to consider over plain brass. Deltacut 900 is a suitable choice to achieve greater productivity at a price closer to brass.

Deltacut 500 wires are particularly recommended for machining parts with taper angles.



Deltacut 900



Deltacut 500 (Call for pricing and availability)

Properties

Wire	Material	Coating	Tensile	Elongation	Conductivity
Deltacut 900	CuZn 35	Zn Alloy	900 N/mm2	‹ 2 %	20 % IACS
Deltacut 500	CuZn 35	Zn Alloy	500 N/mm2	15 %	22 % IACS

Packaging

	Ø mm			Spool(s)/package
	0.20	0.25	0.30	
K 125 (4 kg)	X	X	X	4
K 160 (8 kg)	X	X	X	2
K 200 (16 kg)	X	X	X	1
K 250 (25 kg)		X	X	1
P 5 (6 kg)	X	X	X	4
P 10 (10 kg)	X	X	X	1
P 15 (20 kg)	X	X	X	1

Brass wire coated with a zinc-based alloy

Deltacut 900+ Deltacut 500+

Description

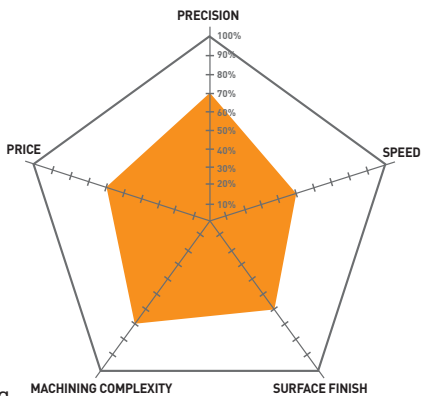
This wire has been developed to meet market demand. Deltacut 900+ delivers performance at a competitive price.

Deltacut 900+ increases productivity of wire machines while reducing the operating cost.

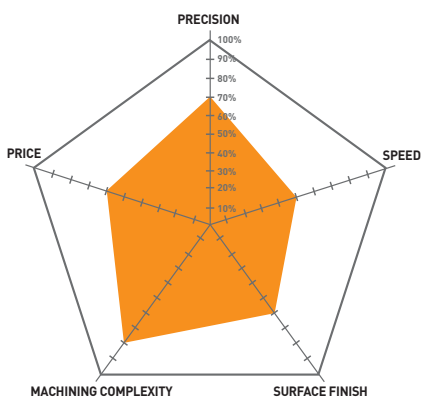
Application

This wire can be used on all machines . Its electroplated surface layer provides an extra degree of cleanliness. Deltacut 900+ is a competitively priced choice for parts requiring precision and surface finish.

Deltacut 500+ wires are particularly recommended for machining complex parts requiring a large wire angle.



Deltacut 900+



Deltacut 500+ (Call for pricing and availability)

Properties

Wire	Material	Coating	Tensile	Elongation	Conductivity
Deltacut 900+	CuZn alloy	CuZn	875 N/mm2	2 %	20 % IACS
Deltacut 500+	CuZn alloy	CuZn	450 N/mm2	15 %	22 % IACS

Packaging

	Ø mm			Spool(s)/package
	0.20	0.25	0.30	
T 125 (4 kg)	X	X	X	4
T 160 (8 kg)	X	X	X	2
T 200 (16 kg)	X	X	X	1
K 250 (25 kg)		X	X	1
P 5 (6 kg)	X	X	X	4
P 10 (10 kg)	X	X	X	2
P 15 (20 kg)	X	X	X	1

Brass wire coated with a zinc-based alloy

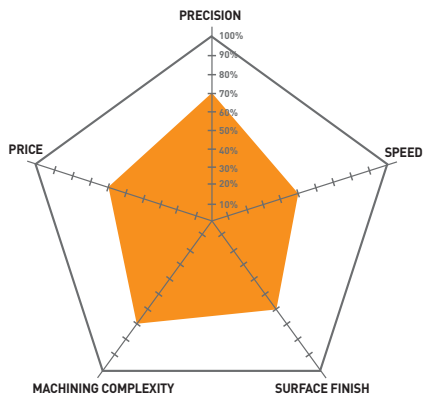
topas plus h topas plus s

Description

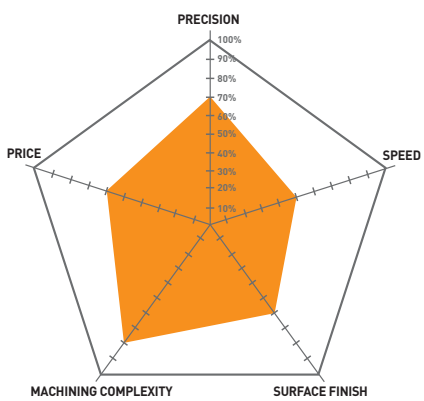
This gamma phase wire provides increased productivity compared with traditional brass wires.
Topas plus h is particularly suited for machines requiring straightness for auto threading.

Application

This wire can be used on all machines on the market, it is recommended for the production of parts requiring precision and surface finish.
Topas plus S wire is recommended for the machining of complex parts where a taper angle is required.



topas plus h



topas plus s

Properties

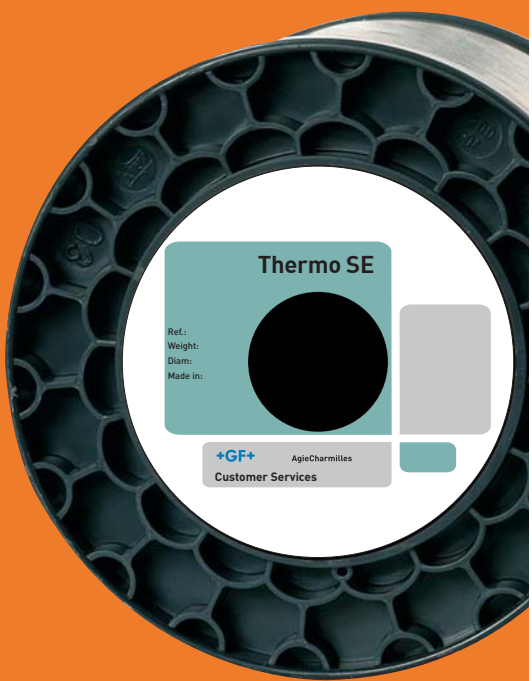
Wire	Material	Coating	Tensile	Elongation	Conductivity
topas plus h	CuZn 36	Special	800 N/mm²	› 1 %	20 % IACS
topas plus s	CuZn 36	Special	500 N/mm²	› 10 %	22 % IACS

Packaging

	Ø mm			Spool(s)/package
	0.20	0.25	0.30	
B4 (4 kg)	X	X	X	4
B8 (8 kg)	X	X	X	2
K 200 (16 kg)	X	X	X	1
K 250 (25 kg)		X	X	1
P 5 (5 kg)	X	X	X	4
P 10 (10 kg)	X	X	X	1
P 15 (20 kg)	X	X	X	1

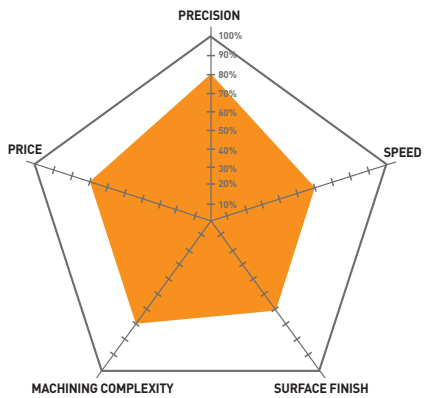
Brass wire coated with a zinc-based alloy

Thermo SE



Description

This high-performance wire represents a new generation of performance wire for EDM machines. This wire combines very good performance and machining precision. Using this wire lowers the operating cost of your machines. Wire speed can be reduced by 20% without loss of performance, which increases the lifespan of wearing parts by 20%.



Application

This wire is suitable for all types of machines and is recommended for all standard applications that require speed and precision. Thermo SE may be used as lower cost alternative to D type wires.

Properties

Material	Coating	Tensile	Elongation	Conductivity
CuZn alloy	CuZn	750 N/mm²	2 %	28 % IACS

Packaging

	Ø mm			Spool(s)/package
	0.20	0.25	0.30	
T 125 (4 kg)	X	X	X	4
T 160 (8 kg)	X	X	X	2
T 200 (16 kg)	X	X	X	1
K 250 (25 kg)		X	X	1
P 5 (5 kg)	X	X	X	4
P 10 (10 kg)	X	X	X	1
P 15 (20 kg)	X	X	X	1

Brass wire with a diffused zinc coating

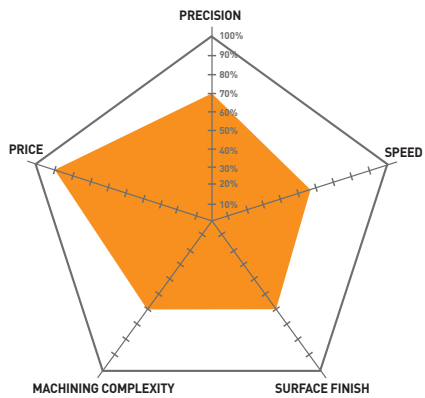
cobra cut D cobra cut S

Description

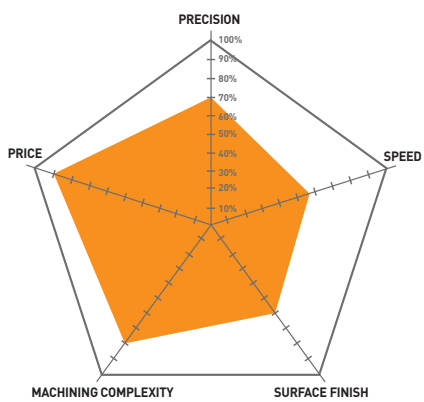
This wire, which is made from a brass alloy with only 20% zinc, bears high electric power, which results in very good machining efficiency. It enables a machining speed of up to 20% faster than brass wire. High rigidity also enables very good precision to be obtained.

Application

This wire is intended for AgieCharmilles machines. It is particularly recommended for standard machining applications that require speed and precision. Cobra cut S wire is an upgrade to cobra cut D and offers greater performance due to its thicker diffusion annealed surface.



cobra cut D



cobra cut S

Properties

Wire	Material	Coating	Tensile	Elongation	Conductivity
cobra cut D	CuZn 20	CuZn 50	800 N/mm²	1 %	27 % IACS
cobra cut S	CuZn 20	CuZn 50	800 N/mm²	1 %	31 % IACS

Packaging

		Ø mm		Spool(s)/package
		0.25	0.30	
B4	(4kg)	X	X	4
B8	(8 kg)	X	X	2
B16	(16 kg)	X	X	1
K 25	(25 kg)	X	X	1
P 5	(5 kg)	X	X	4

Brass wire with a diffused zinc coating

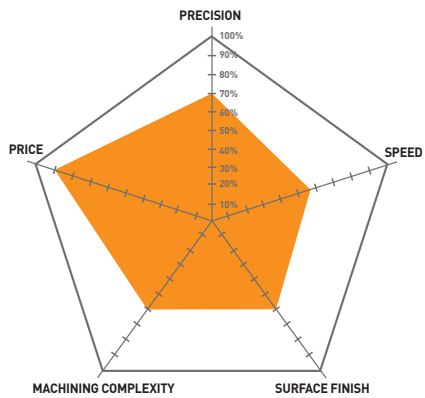
AC SW-D AC SW-W

Description

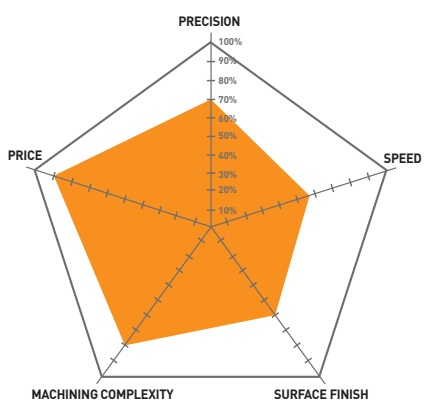
This wire, which is made from a brass alloy with only 20% zinc, handles high electric power, which results in very good machining efficiency. It enables a machining speed of up to 20% faster than brass wire. The rigidity of this product enables very good precision to be obtained.

Application

This wire is intended for AgieCharmilles machines. It is particularly recommended for standard machining applications that require speed and precision.
The AC SW-D wire is also recommended for machining high parts (H > 150 mm).
The AC SW-W wire is also recommended for machining where the wire taper is > 7°.



AC SW-D



AC SW-W

Properties

Wire	Material	Coating	**Tensile**	Elongation	Conductivity
AC SW-D	CuZn 20	CuZn 50	850 N/mm²	2 %	27 % IACS
AC SW-W	CuZn 20	CuZn 50	450 N/mm²	15 %	31 % IACS

Packaging

	Ø mm		Spool(s)/package
	0.25	0.30	
T 125 (4 kg)	X	X	4
T 160 (8 kg)	X	X	2
T 200 (16 kg)	X	X	1
K 250 (25 kg)	X	X	1
P 5 (5 kg)	X	X	4

Brassfil 900 / 500 / 400

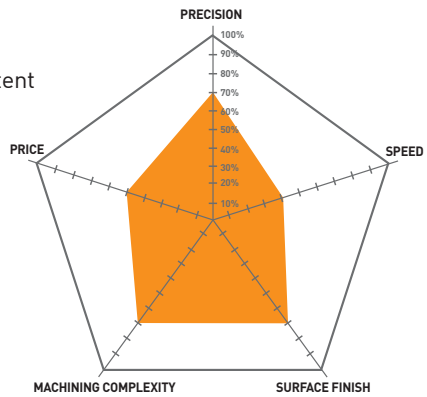
Description

This non-paraffin brass wire is made from a very pure alloy in order to guarantee consistent quality and performance.

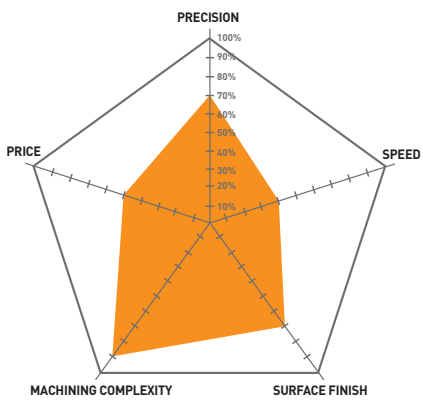
Application

Brass wire is the benchmark for wire EDM machines. Brassfil 900 is recommended for all quality standard machining. This wire is suitable for all the machines on the market.

Brassfil 500 and 400 wires are recommended for machining complex parts requiring taper angle cuts.



Brassfil 900



Brassfil 500 / 400

Properties

Wire	Material	Tensile	Elongation	Conductivity
Brassfil 900	Brass CuZn 63/37	900 N/mm2	1.5 %	22 % IACS
Brassfil 500	Brass CuZn 63/37	500 N/mm2	20 %	25 % IACS
Brassfil 400	Brass CuZn 63/37	400 N/mm2	25 %	26 % IACS

Packaging

	Ø mm					Spool(s)/ package
	0.10	0.15	0.20	0.25	0.30	
K 100	X	X	X	X	X	1
T 125 (4 kg)	X	X	X	X	X	4
T 160 (8 kg)		X	X	X	X	2
T 200 (16 kg)			X	X	X	1
K 250 (25 kg)				X	X	1
P5 (6 kg)			X	X	X	4

Bercocut 900/500 Special

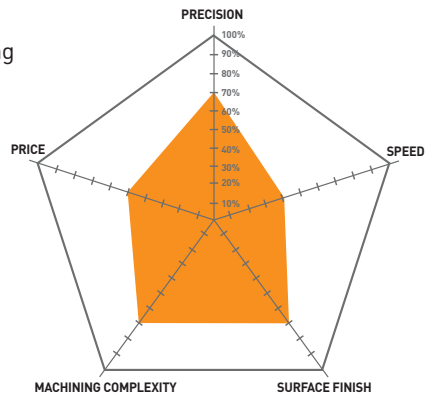
Description

This premium brass wire is made to exacting specifications to guarantee consistent quality and performance.

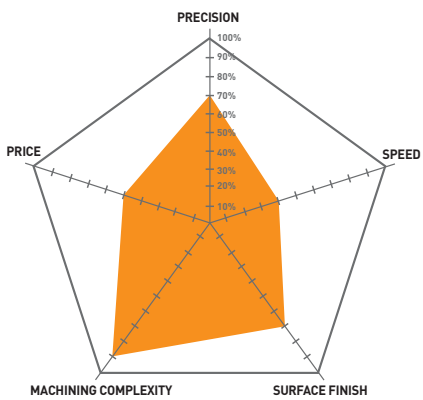
Application

Brass wire is the benchmark for wire EDM machines. Bercocut 900 Special is recommended for all quality machining. This hardened, straightened wire is suitable for all the machines on the market.

Bercocut 500 is recommended for for complex machining requiring taper angle cuts.



Bercocut 900 Special



Bercocut 500

Properties

Wire	Material	Tensile	Elongation	Conductivity
Bercocut 900	Brass CuZn 36	900 N/mm2	1.5 %	22 % IACS
Bercocut 500	Brass CuZn 36	500 N/mm2	› 15 %	25 % IACS

Packaging

	Ø mm					Spool(s)/ package
	0.10	0.15	0.20	0.25	0.30	
K 100	X	X	X	X	X	1
B4 (4 kg)	X	X	X	X	X	4
B8 (8 kg)		X	X	X	X	2
B16 (16 kg)			X	X	X	1
K 250 (25 kg)				X	X	1
P5 (5 kg)			X	X	X	4

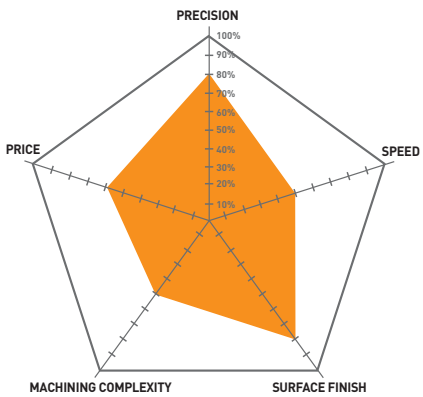
Oki P

Description

This wire is made from a very pure alloy in order to guarantee consistent quality and performance. The special process used to manufacture this wire increases its straightness and surface quality.

Application

This wire works on all machines, it is it is particularly recommended for many MITSUBISHI machines. It enables high-precision parts with an excellent surface finish.



Properties

Material	Tensile	Elongation	Conductivity
Brass CuZn 63/37	980 N/mm²	1.5 %	22 % IACS

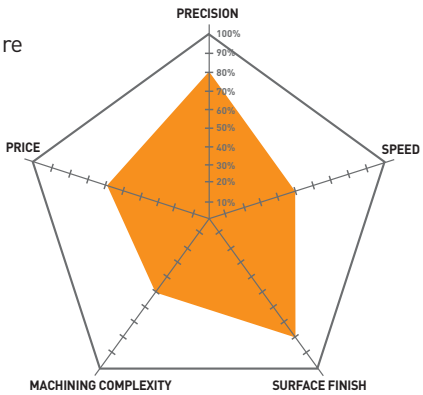
Packaging

	Ø mm			Spool(s)/package
	0.20	0.25	0.30	
P 5 (5 kg)	X	X	X	4
P 5R (6 kg)	X	X	X	4
P 10 (10 kg)	X	X	X	2
P 15 (15 kg)	X	X	X	1

Oki PN

Description

This paraffin-free wire is made from a very pure alloy in order to guarantee consistent quality and performance. The special process used to manufacture this wire increases its straightness and surface quality.



Application

This wire works on all machines. It is particularly recommended for FANUC and MITSUBISHI machines. This wire produces high-precision parts with an excellent surface finish.

Properties

Material	Tensile	Elongation	Conductivity
Brass CuZn 63/37	980 N/mm^2	1.5 %	22 % IACS

Packaging

	Ø mm			Spool/package
	0.20	0.25	0.30	
P 5 (5 kg)	X	X	X	4
P 5R (6 kg)	X	X	X	4
P 10 (10 kg)	X	X	X	2
P 15 (15 kg)	X	X	X	1

Standard Brass 900/500

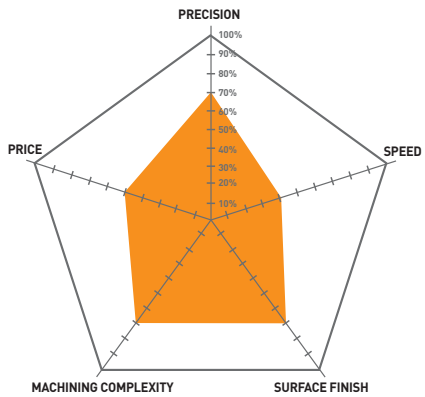
Description

This paraffin-free brass wire is an alternative to more expensive brass wires of similar composition.

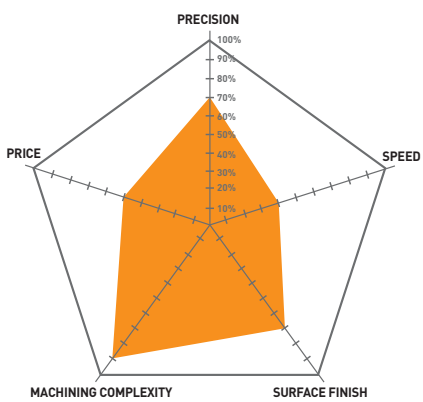
Application

Brass wire is the benchmark for wire EDM machines. Standard Brass 900 is recommended for all standard machining. This wire may be used on any application where a lower cost wire is appropriate.

Standard Brass 500 wire is recommended for machining parts requiring taper angle cuts.



Standard Brass 900



Standard Brass 500

Properties

Wire	Material	Tensile	Elongation	Conductivity
Standard 900	Brass CuZn 63/37	900 N/mm2	1.5 %	22 % IACS
Standard 500	Brass CuZn 63/37	500 N/mm2	20 %	25 % IACS

Packaging

	Ø mm					Spool(s)/ package
	0.10	0.15	0.20	0.25	0.30	
K 100	X	X	X	X	X	1
K 125	X	X	X	X	X	4
K 160 (8 kg)		X	X	X	X	2
K 200 (16 kg)			X	X	X	1
K 250 (25 kg)				X	X	1
P5 (6 kg)			X	X	X	4

Molybdenum Wire

Description

Due to tensile strength limitations, few EDM wire types can be manufactured in very small wire diameters, which are necessary when EDMing small radii.

Application

Suitable for accurate cuts, small radii and geometrically complicated workpieces. The high strength of molybdenum wire makes it suitable for deep cuts that necessitate highly accurate parallelism and surface finish. It is especially recommended for cutting carbides, steel, tungsten, titanium and synthetic diamond.

Properties

Wire	Material	Tensile	Elongation
Molybdenum	Molybdenum 100	1900 N/mm2	5 %

Packaging **Please contact AgieCharmilles for additional sizes and diameters.

	Ø mm					Qty
	0.03	0.05	0.08	0.10	0.13	
10,000m						1
5,000m						1
3,000m						1
2,000m						1

Tungsten Wire

Description

Tungsten alloy wire has been developed for ultra precise EDM. This wire is especially effective when used with AgieCharmilles Vertex series machines.

Application

Most effective in the production of ultra precise metal molds for sophisticated plastic parts, electronic parts such as IC lead frames, optical instruments, and miniature mechanical parts.

Properties

Wire	Material	Tensile	Elongation
Tungsten	W alloy	2825-3825 N/mm2	1 %

Packaging **Please contact AgieCharmilles for additional sizes and diameters.

	Ø mm					Qty
	0.02	0.03	0.05	0.07	0.15	
10,000m						1
5,000m						1
3,000m						1

SP Wire

Description

SP wire is a hybrid electrode wire consisting of a high-strength core and a highly conductive outer shell. The end result is a product that combines the advantages of tungsten and brass wires.

Application

SP wire has an excellent free cast and straightness, allowing a higher success rate for autothreading. With its high tensile strength and stable characteristics, SP wire provides fine, precise cutting.

Properties

Wire	Tensile
SP	1960-2160 N/mm2

Packaging **Please contact AgieCharmilles for additional sizes and diameters.

	Ø mm					Qty
	0.03	0.04	0.05	0.06	0.07	
20,000m				X	X	1
10,000m		X	X	X	X	1
5,000m	X				X	1

Privilege Club

The first program in the industry of its kind, GF AgieCharmilles' Privilege Club is not a loyalty program that saves you a few pennies in discounts. Designed to ensure that you do indeed Achieve More, Privilege Club was created to save you thousands of dollars through enhanced productivity and access to exclusive beneficial content.

Members of Privilege Club receive a Privilege Point for every dollar invested in consumables and wear parts. Privilege Points may be redeemed towards Privilege Pricing on a wide variety of services and products, including operator training, machine utilization consultations, machine options, preventive maintenance contracts and upgrades. Additional benefits await members, are you a member yet? Visit ac-privilegeclub.com or talk to one of our Customer Service Representatives to learn more and register.

With the most knowledgeable customer service staff in the industry, backed by the most comprehensive database in EDM, GF AgieCharmilles guarantees the highest level of service in our industry. Talk to any of our Customer Service Representatives and tell them about your machine – the brand, model number, and serial number – and we will ship you the correct product for your specific machine. Our substantial inventory makes it possible for us to ship over 95% of orders the same day the order is received. We also have a 60-day Money Back Guarantee on all catalog items. We accept American Express, Discover, Mastercard, and Visa.

Here's how to place your order:

1. Call 1-800-282-1336 (USA) or 1-800-243-5853 (Canada).
2. Fax 1-800-325-7584 (USA) or 1-905-565-6945 (Canada).
3. Or, visit www.gfac.com/us

Regional Sales Centers & Stocking Locations

Headquarters (Chicago)

560 Bond Street
Lincolnshire, IL 60069
Tel: (800) 282-1336
Fax: (800) 325-7584

Charlotte, North Carolina Applications Center

9009-G Perimeter Woods Drive
Charlotte, NC 28216
Tel: (800) 438-5021
Fax: (704) 927-0955

Holliston, Massachusetts Applications Center

150 Hopping Brook Road
Holliston, MA 01746
Tel: (508) 474-1100
Fax: (508) 474-1111

Phoenix, Arizona Sales Center

5025 South Ash,
Suite B-5
Tempe, AZ 85282
Tel: (800) 333-4182
Fax: (602) 967-9255

Seattle, Washington Sales Center

238 SW 43rd Street
Renton, WA 98055
Tel: (425) 251-4979 Fax: (425) 251-1245

Toronto, Canada Sales Center

6975-D Pacific Circle
Mississauga, Ontario L5T 2H3
Tel: (800) 243-5853
Fax: (905) 565-6945