



THERMO SA

THERMO

EXCELLENCE **IN WIRES**



WHO WE ARE

A world market leading specialist in EDM: we support our client with excellence for over 45 years









VERY HIGH SPEED 10 & PRECISION

THERMO XCC® THERMO TEX® THERMO SWX®

28 SPEED & PRECISION

> THERMO SD® THERMO SD2® THERMO JP® THERMO JP2® THERMO JP*®

ALL PURPOSE $\mathbf{\nabla}\mathbf{\Delta}$

THERMO BRASS 1000® TURBOBRASS® THERMO BRASS 900® THERMO BRASS 500® THERMO BRASS 4008 THERMO FIRST 900/500®





HIGH SPEED & PRECISION

THERMO SE® THERMO SWD® THERMO SWW® THERMO D[®]



18

SUPER PRECISION & SPEED

THERMO SA^{+®} THERMO SA® THERMO SWA® THERMO SWS® THERMO R®



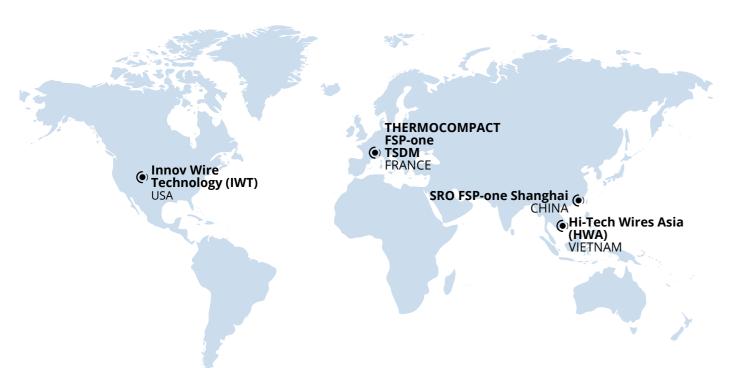
ZINC FREE

THERMO ZF® THERMO ZF*® THERMO ZF sigma®



Innovative coatings and wires for high tech industry

Locations on 3 continents : Europe, Asia and America.



We seek excellence to be world leader in our niche markets and offer the best:

INNOVATION PERFORMANCE COMPETITIVENESS

to meet the expectations of our industrial customers with applications in high technology sectors :

aeronautics, space, telecom, automotive, connector technology, general and fine mechanics, health, optical, photovoltaics...

PROFICIENT IN 6 ORIGINAL CORE BUSINESSES

WE MANUFACTURE:

> High-end wires for EDM,

- High value added **technical surface coating**: electrolytic, thermal and chemical processes,
- Speciality coated wires for specific electrical cables,
- Metal heat chemical treatments.
- > Diamond electroplated wires for photovoltaic, electronic and sapphire applications,
- **Diamond wire saws** for slicing hard and brittle materials.



ECO FRIENDLY SOLUTIONS TO PROTECT OUR PLANET RESOURCES

- We are committed to zero pollution. All our technological processes continuously improve the waste recycling and eliminate any chemical pollution.
- > Our innovative solutions allow energy savings on manufacturing equipment.

INNOVATION: PART OF OUR ONA

Forward-looking, with a dynamic and proven approach of continuous progress and innovation, our Research and **Development** team pushes the limit of performance of the process and products and works continuously on new material structures: R&D's group regularly demonstrates results including world wide patents that cover innovative EDM wires and manufacturing processes.

As an international leader and to answer to the needs of our industrial partner and clients in the course of excellence and innovation, we develop every year innovative products and processes in terms of performance, productivity and quality constancy.

SMART SPOOL®



> We prefer short circuits for the supplies of raw materials.

More than 18 patents for product and process

2% revenues invested every year in R&D

Major partnerships with research centers, innovation clusters and global corporations



WORLDWIDE TRACEABILITY

Its ingenious on-board electronic system with tracking sensors gives all informations to support:

- Traceability
- Technical data control
- Production management

EDM WIRES: KNOW HOW AND EXPERTISE FOR MANY YEARS



THERMOCOMPACT, with more than 100 years of experience and know-how acquired in electroplating, designs and manufactures in France the best performing and innovative EDM wires for its clients in high technology sectors.

Today THERMOCOMPACT engineers and works on world class production lines and is considered the world-wide leader in EDM wires, specialised in electroplating.



Hi-Tech WIRES ASIA, since 2007, manufactures in Vietnam the best performing and innovative EDM wires, based on the know-how and the expertise of Thermotechnologies group in electroplating. HWA supplies the Asian and the American markets with the best quality and reliability existing for EDM wires.



Both THERMOCOMPACT and HWA, support their industrial customers to reach their goals of technical and improved productivity, applying the thermo-technology group founding values:

> EXPERTISE EXCELLENCE INNOVATION

THERMOCOMPACT: THE ORIGINAL PATENT HOLDER FOR "GAMMA", "GAMMA WITHOUT DISTRIBUTION", AND "BETA/GAMMA" EDM WIRES

We have developed :

and THERMO JP^{*®}

WE SUPPORT OUR CUSTOMERS IN ACHIEVING EXCELLENCE SINCE A LONG TIME WITH HIGH VALUE EDM WIRES **RESULTING IN MAJOR PRODUCTIVITY GAINS**

We partner with our clients, the mechanical and micro-mechanical manufacturers to offer high added value wires adapted for precision and productive machining.

> Our wide range of EDM wires offers more than 25 EDM wires, from brass to last generation of patented coated wires.

> Our high-tech wires can machine any type of metal part regardless of hardness, complexity and precision.

We continuously adapt our EDM wires to the combined needs of performance of our customers for many applications: cutting tools, molds and dies, highly sophisticated parts manufactured for medical equipment, aerospace, watchmaking, connectors, precision mechanical parts etc...

WE OFFER PERSONALISED SERVICE AND LONG TERM **TECHNICAL PARTNERSHIP INCLUDING:**

- are in the world
- and greater return on investment.

EDM WIRES 5

The first coated EDM wire in 1973: THERMO X®

The fastest EDM wires in 2002 : THERMO XCC®

The market reference for precision in 2007 : THERMO SA®

A new EDM wire with combination between speed and accuracy: THERMO SD2[®] and JP2[®] in 2012

The next generation of EDM wire in 2019: **THERMO SA^{+®}**

Personalised recommendations on machine issues, wherever our customers

A long-term support, establishing a **knowledge-sharing plan** with our customers to ensure continuous improvement for EDM wire performances,

CHOOSE YOUR WIRE

ABOUT PRECISION

Our coated wire combined with a dedicated technology setup on machine will provide you the best precision:

The precision of the part is the result of:



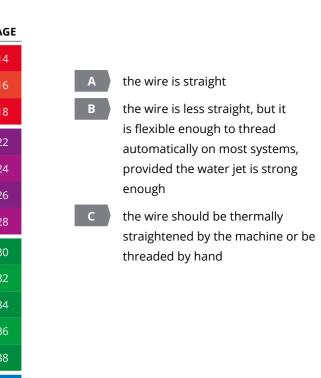
MACHINES SOLUTIONS +GF+ MICRO MACHINING & TOP END HIGH SPEED 0 0 GENERAL PURPOSE Sodick FANUC Seibu OLLMER MITSUBISH MACHINING YOUR NEED WIRE MAKINO ACCURACY THERMO XCC® VERY HIGH THERMO TEX® SPEED & PRECISION THERMO SWX® THERMO SE[®] * HIGH THERMO SWD® SPEED & PRECISION THERMO SWW® Offered for certified processes which are still in operation THERMO D[®] THERMO SD® THERMO SD2® SPEED & THERMO JP® ** PRECISION THERMO JP2[®] ** THERMO JP*® ** THERMO SA^{+®} THERMO SA® THERMO SA 500® SUPER PRECISION THERMO SA 400® & SPEED THERMO SWA® THERMO SWS® THERMO A® ALL THERMO BRASS PURPOSE 1000[®] THERMO ZF® ZINC THERMO ZF*® FREE THERMO ZF sigma®

ABOUT THREADING

Most modern EDM machines use a thermal system to prepare the wire before automatic threading. They make the wire straight themselves. This operation on the machine allows the wire to be straight enough for

YOUR NEED	WIRE	LEVEL OF STRAIGHTNESS	PAG
VERY	THERMO XCC®	С	14
HIGH SPEED &	THERMO TEX®	С	16
PRECISION	THERMO SWX [®]	С	18
	THERMO SE [®] *	В	22
HIGH	THERMO SWD [®]	В	24
SPEED & PRECISION	THERMO SWW®	С	26
	THERMO D®	В	28
	THERMO SD [®]	А	30
	THERMO SD2®	В	32
SPEED & PRECISION	THERMO JP® **	А	34
	THERMO JP2 [®] **	В	36
	THERMO JP ^{+®} **	А	38
	THERMO SA ^{+®}	А	42
	THERMO SA®	А	44
SUPER	THERMO SA 500®	В	46
PRECISION	THERMO SA 400®	С	46
& SPEED	THERMO SWA®	А	48
	THERMO SWS®	В	50
	THERMO A®	А	52
ALL PURPOSE	THERMO BRASS 1000 [®]	A	56
	THERMO ZF®	С	64
ZINC FREE	THERMO ZF ^{+®}	В	66
	THERMO ZFsigma®	В	68

threading. Thus, they can automatically thread curved wires such as soft brass (500N/mm² and 400N/mm²). Some machines still require the wire to be straight, or to be flexible enough to remain in the threading jet.

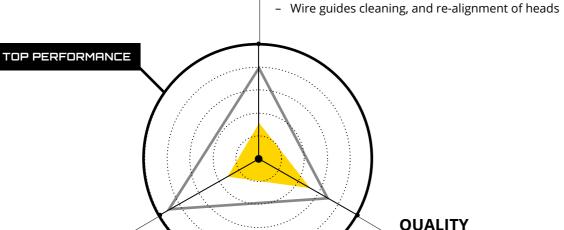


- THERMD SE[®] is an high speed wire. To obtain its best performance, some parameters can be pushed.
- ** We have designed THERMO JP[®], THERMO JP2[®] and THERMO JP2^{*®} to fit with Japanese machines with its original brass parameters.

MAKE AN EASY CHOICE VISUALLY

In the following pages, the radar graph shows the performances of our wires compared to the standard brass.

CHOOSE YOUR WIRE WITH 3 CRITERIA



O.E.E.

includes:

Overall Equipment Effectiveness

- Replacement current feeders

Refers to the process performance improvement,

compared to the time needed for the wirerelated

maintenance of the machine. If, for example, the set up time is reduced, the O.E.E. will increase more product for less ressource. The maintenance related to the wire

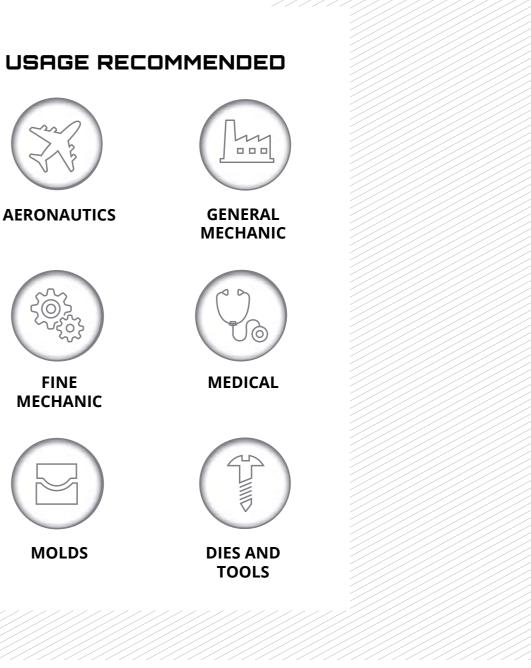
Refers to the average speed of a wire. The radars compare coated wires to brass, in the same flushing conditions.

SPEED

Coating enhances not only the rough cut's speed but also the cutting speed of some trims.

QUALITY

Refers to the best surface finish a wire can achieve, and to the best positioning accuracy during electrical edge sensing.





AERONAUTICS





EDM WIRES 9





VERY HIGH SPEED & PRECISION

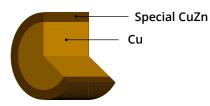
WIRES DEDICATED

THERMO XCC® THERMO TEX®

THERMO SWX®



COPPER CORE, CUZN COATING



500 mm²/min.

THERMO XCC[®] has been developed and adjusted for GFMS AgieCharmilles machines to increase the cutting speed.

With a machine equipped with Clean Cut generator, **THERMO XCC**[®] can reach a cutting speed superior to

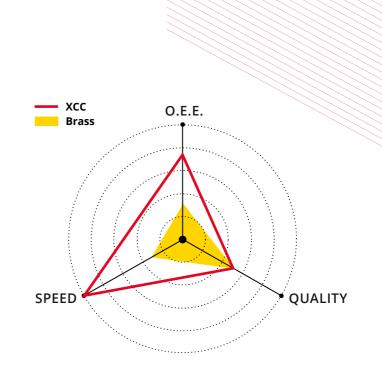
It offers a processing speed up to 50% higher than standard brass wire.

THERMO XCC[®] wire suits particularly for nickel base alloys, for aeronautic production as an example.

It is particularly recommended for large workpiece machining (H> 150 mm) and individual mechanical parts or series. THERMO XCC[®] is the ultimate solution when the priority is cutting speed.

USAGE RECOMMENDED





AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	ю хсс	K100	T125	T160	T200	K250	K355
0,25 mm 0.010"	25XCC						
0,30 mm 0.012″	30XCC						
0,33 mm 0.013″	33XCC						

CHARACTERISTICS

Core	Сυ α
Coating	Thick CuZn β
Tensile Strength	500N/mm ²
Elongation	2%
Conductibility	65% IACS



WORLDWIDE HIGHEST **CUTTING SPEED**

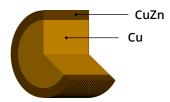
PATENT RELATED

VERY HIGH SPEED & PRECISION 13

EP 1 455 981 US 7 687 738 CN ZL 02 8 25126.1 JP 4 516753 BR 0 214 599



COPPER CORE, CUZN COATING



THERMO TEX[®] is well adapted to GFMS AgieCharmilles and ONA machines, and 100% compatible with the THERMO SWX[®] technology.

Due to its clean wire surface **THERMO TEX**[®] combines a very high level of performance and realistic savings on maintenance of wire EDM machines.

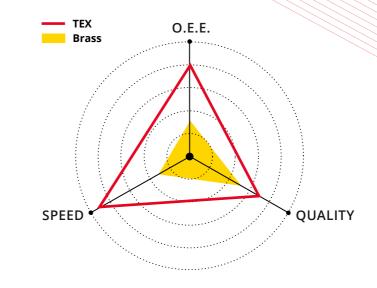
THERMO TEX[®] is recommended for a wide range of standard applications in the field of molds, tools or general mechanics.

THERMO TEX[®] wire replaces X wire, fully compatible with its technologies, keeping all the machine parameters. Its cutting speed is up to 35% higher than standard brass and 10% higher than THERMO SWX[®].

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	ΙΟ ΤΕΧ	К100	T125	T160	T200	K250	K355	JP5
0,25 mm 0.010"	25 TEX							
0,30 mm 0.012"	30 TEX							

CHARACTERISTICS

Core	Cu α
Coating	CuZn β and Cu ₅ Zn ₈ γ
Tensile Strength	450N/mm ²
Elongation	1%
Conductibility	70% IACS



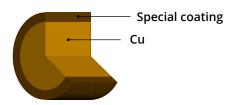
VERY HIGH SPEED & PRECISION 15

LATEST GENERATION OF EDM WIRE, CLEANLINESS AND VERY HIGH SPEED CUTTING WITH THE BEST QUALITY/PRICE RATIO

PATENT RELATED



COPPER CORE, CUZN COATING



THERMO SWX[®] is dedicated to GFMS AgieCharmilles Machines Robofil type.

Thanks to its cutting speed, THERMO SWX[®] reduces the cost of production in the most varied and complex applications.

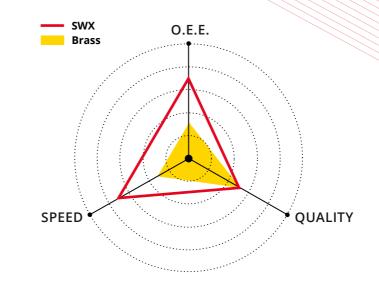
It is widely used in the field of molds.

The reference wire for GFMS AgieCharmilles and ONA machines. THERMO SWX[®] is 30% faster than standard brass.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	IO SWX	K100	T125	T160	T200	K250	JP5
0,25 mm 0.010″	25X						
0,30 mm 0.012″	30X				-		

ALSO AVAILABLE ON DEMAND

THERMO SW[®]: The first coated wire available for EDM machines

- **THERMD SW[®]** is particularly adapted to the generation of GFMS AgieCharmilles machines having the annealing devices and calibration.
- Cutting speed up to 15% higher than brass wire.

MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA

CHARACTERISTICS

Core	Сυ α
Coating	CuZn β
Tensile Strength	450N/mm ²
Elongation	1%
Conductibility	80% IACS



VERY HIGH SPEED & PRECISION 17

THE ORIGINAL X WIRE FOR SPEED, WELL ADAPTED FOR GFMS AGIECHARMILLES AND ONA MACHINES









HIGH SPEED & PRECISION

WIRES DEDICATED

THERMO SE®

THERMO SWD®

THERMO SWW®

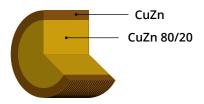
THERMO D®

HIGH SPEED & PRECISION

19



BRASS CORE. CUZN COATING



THERMO SE[®] is suitable for all type of wire EDM machines (GFMS AgieCharmilles, Makino, Vollmer and all Japanese machines).

Highly recommended for all standard applications that require speed and accuracy, particularly in unfavorable flushing conditions.

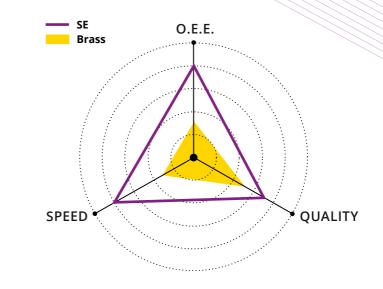
THERMO SE[®] is an economical alternative to the use of **THERMO SWD**[®], with superior efficiency.

THERMO SE[®] offers a processing speed up to 30% higher than a standard brass. The wire surface is extremely clean, reducing machine maintenance. An economical performance with a guaranteed productivity.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THER	MO SE	K100	T125	T160	T200	K250	JP5	JP10	JP15
0,20 mm 0.008"	SE								-
0,25 mm 0.010"	SE								
0,30 mm 0.012"	SE								
0,33 mm 0.013"	SE								

CHARACTERISTICS

Core	Brass80/20
Coating	CuZn β and Cu ₅ Zn ₈ γ
Tensile Strength	750N/mm ²
Elongation	2%
Conductibility	28% IACS



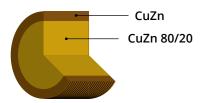
HIGH SPEED & PRECISION 21

HIGH PERFORMANCE, ESPECIALLY RECOMMENDED FOR MACHINING LARGE PARTS (HEIGHT > 100 MM) AND FOR SERIAL MANUFACTURING

PATENT RELATED



BRASS CORE, CUZN COATING



THERMO SWO[®] is suitable for all EDM machines using automatic threading, particularly adapted for latest Agie generation of GFMS AgieCharmilles and Makino machines.

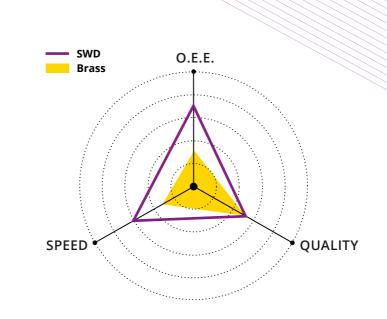
With high electrical and thermal conductivity, **THERMO SWO**[®] is dedicated to machines fitted with powerful generator.

It is particularly recommended for applications that require standard accuracy and speed machining.

THERMO SWD[®] offers a processing speed up to 20% higher than a standard brass.

USAGE RECOMMENDED





AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	O SWD	K100	T125	T160	T200	K250	JP5
0,25 mm 0.010"	SW25D						
0,30 mm 0.012"	SW30D						

CHARACTERISTICS

Core	Brass80/20
Coating	CuZn β
Tensile Strength	850N/mm ²
Elongation	2%
Conductibility	27% IACS

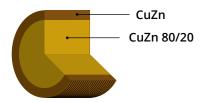


HIGH SPEED & PRECISION 23

RECOMMENDED FOR MACHINING LARGE PARTS WITH HEIGHT > 100 MM



BRASS CORE, CUZN COATING



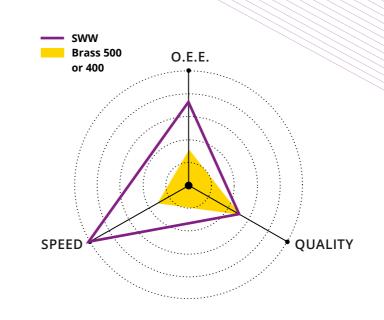
THERMD SWW[®] is dedicated to machines fitted with powerful generators or the lastest generation: IPG (Intelligent Power Generator).

Its 15% elongation characteristic and a high thermal and electrical conductibility allows to cut 45° conical sections with precision.

THERMO SWW[®] offers a processing speed up to 20% higher than a standard brass.

USAGE RECOMMENDED





AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	O SWW	K100	T125	T160	T200	K250	JP5
0,25 mm 0.010"	SW25W						
0,30 mm 0.012"	SW30W						

CHARACTERISTICS

Core	Brass80/20
Coating	CuZn β
Tensile Strength	450N/mm ²
Elongation	15%
Conductibility	31% IACS



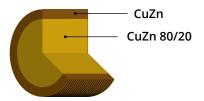


HIGH SPEED & PRECISION 25





BRASS CORE, CUZN COATING



THERMO D[®] is suitable for all EDM machines using automatic threading, particularly for GFMS AgieCharmilles 100 series and Makino machines.

THERMD D[®] is recommended for applications that require standard accuracy and speed machining.

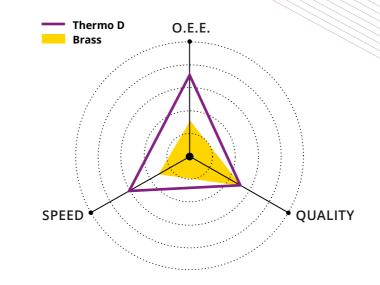
Its high speed erosion is up to 20% faster than brass wire due to its high thermal and electrical conductibility.

THERMO D[®] has the same characteristics than THERMO SWD[®]. Its innovative manufacturing process allows for a very competitive price.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THER	MO D	К100	T125	T160	T200	K250	JP5
0,25 mm 0.010"	D 25						
0,30 mm 0.012"	D 30						

CHARACTERISTICS

Core	Brass80/20
Coating	CuZn
Tensile Strength	850N/mm ²
Elongation	2%
Conductibility	27% IACS



HIGH SPEED & PRECISION 27

THE ORIGINAL WIRE FOR MACHINES HAVING A POWERFUL GENERATOR







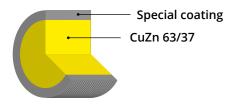
SPEED & PRECISION 29

PRECISION

WIRES DEDICATED

- THERMO SD®
- THERMO SD2®
- THERMO JP®
- THERMO JP2®
- THERMO JP*®

MONOPHASED α BRASS CORE. $\gamma\,\text{CU}_{\scriptscriptstyle \text{S}}\text{ZN}_{\scriptscriptstyle \text{B}}$ GAMMA PHASE COATING



THERMO SO[®] has been engineered for the GFMS AgieCharmilles machines. It's universal usage is adapted as well to Japanese machines.

Compared to standard brass:

- **THERMO SO**[®] increases the production of parts up to 20% compared to standard brass.
- > It reduces the machining cost of the production of parts requiring high accuracy and good surface finish.

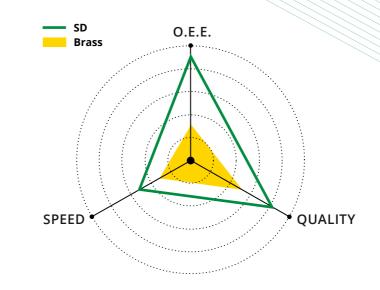
THERMO SD[®] is widely used for standard applications in the field of molds, tools or general mechanics.

THERMO SO[®] increases speed and productivity, even with brass technology due to its unique coating.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THER	MO SD	K100	T125	T160	T200	K250	K355	JP5	JP10	JP15
0,20 mm 0.008"	SD									
0,25 mm 0.010"	SD									
0,30 mm 0.012"	SD									
0,33 mm 0.013"	SD									

CHARACTERISTICS

Core	Brass 63/37	
Coating	γ Cu ₅ Zn ₈	
Tensile Strength	450 N/mm ²	900 N/mm ²
Elongation	12%	2%
Conductibility	23% IACS	20% IACS



MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA

SPEED & PRECISION 31

UNIVERSAL USAGE, FOR APPLICATION REQUIRING PRECISION IN CUTTING WITH GOOD SURFACE FINISH

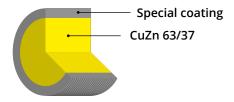
PATENT RELATED

(SD 900 and SD 500) US 5 945 010 EP 1 009 574 CA 2 302 202 US 8 338 735 CN ZL 2008 1 000922.7 TW i 350780 CN 101 234 442 JP 5 627 841 KR 10-0981035 EP 1 949 995





MONOPHASED α BRASS CORE. DUAL LAYER OF β CUZN AND γ CU_SZN_B COATING



THERMO SD2[®] is an evolution of THERMO SD[®] and is the latest generation of EDM wire.

Faster than THERMO SD[®] due to its special coating, THERMO SO2[®] provides an excellent price/performance ratio.

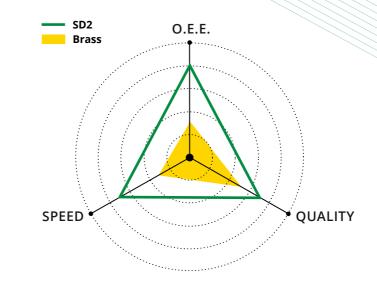
THERMO SD2[®] is recommended for a wide range of standard applications requiring good accuracy and good surface finish.

THERMO SO2[®] is a new EDM wire developed and made by THERMOCOMPACT. Specific technology on GFMS Cut200, Cut300 and Cut400 machines.

USAGE RECOMMENDED





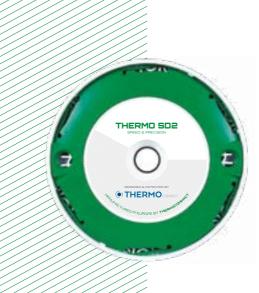


AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	IO SD2	K100	T125	T160
0,20 mm 0.008″	SD2			
0,25 mm 0.010″	SD2			
0,30 mm 0.012″	SD2			

CHARACTERISTICS

Core	α Brass 63/37
Coating	β CuZn and γ Cu_{5}Zn_{8}
Tensile Strength	>800 N/mm ²
Elongation	2%
Conductibility	22% IACS



MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA

SPEED & PRECISION 33

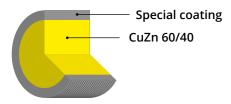
LATEST GENERATION OF WIRE, HIGH SPEED PERFORMANCE AND PRECISION IN CUTTING FOR HIGH PRODUCTIVITY

PATENT RELATED





DUAL PHASE $\alpha + \beta$ BRASS CORE, $\gamma\,\text{CU}_{\scriptscriptstyle \rm S}\text{ZN}_{\scriptscriptstyle \rm H}$ GAMMA PHASE COATING



THERMO JP[®] offers the technology of coated wire optimized for Japanese machines without changing the original parameters.

THERMO JP[®] is recommended to obtain higher accuracy, coating without flakes and good surface finish.

Its threading is particularly good.

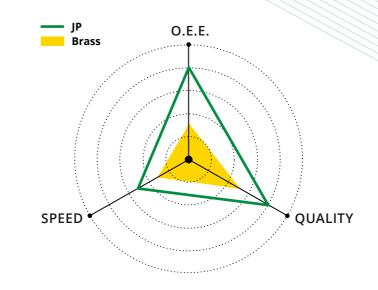
THERMO JP[®] is widely used for standard application in the field of molds, tools or general mechanics.

THERMO JP[®] increases speed and productivity, creating more erosion on the work piece and less erosion on the wire. THERMO JP[®] is optimized for Japanese machines without changing the original parameters of brass wire.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THER	MO JP	K100	T125	T160
0,20 mm 0.008″	JP			
0,25 mm 0.010″	JP			
0,30 mm 0.012″	JP			

CHARACTERISTICS

Core	Brass 60/40
Coating	γ Cu ₅ Zn ₈
Tensile Strength	900 N/mm ²
Elongation	2%
Conductibility	22% IACS

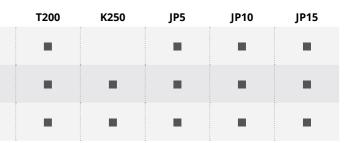


MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA

SPEED & PRECISION 35

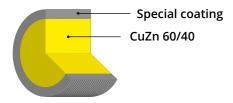
DESIGNED FOR JAPANESE MACHINES, FOR APPLICATION REQUIRING PRECISION IN CUTTING WITH VERY GOOD SURFACE FINISH

PATENT RELATED





DUAL PHASE $\alpha + \beta$ BRASS CORE, DUAL LAYER OF β CUZN AND γ CU_ZN_ COATING



THERMO JP2[®] is an evolution of THERMO JP[®], the latest generation of EDM wire, well adapted to Makino and all Japanese machines type.

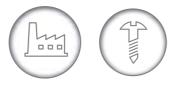
Due to its special coating, **THERMO JP2**[®] is faster than THERMO JP[®] and provides an excellent price/performance ratio.

Its threading is particularly good.

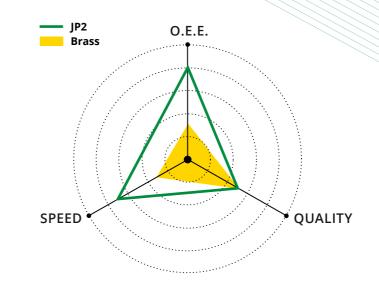
THERMO JP2[®] is recommended for a wide range of standard applications requiring good accuracies and surface finish.

THERMO JP2[®] is a new EDM wire made by THERMOCOMPACT. THERMO JP2[®] is optimized for Japanese machines without changing the original parameters of brass wire.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	/IO JP2	K100	T125	T160
0,20 mm 0.008″	JP2			
0,25 mm 0.010"	JP2			
0,30 mm 0.012″	JP2			

CHARACTERISTICS

Brass 60/40
β CuZn and γ Cu_{5}Zn_{8}
800 N/mm ²
2%
24% IACS

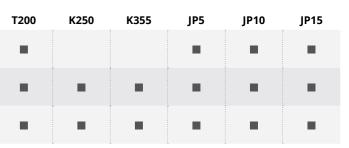


MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA

SPEED & PRECISION 37

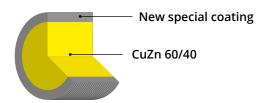
NEW EDM WIRE, DESIGNED FOR JAPANESE MACHINES, HIGH SPEED PERFORMANCE AND PRECISION IN CUTTING

PATENT RELATED





DUAL PHASE $\alpha + \beta$ BRASS CORE, $\gamma \, \mathrm{CU}_{\mathrm{s}} \mathrm{ZN}_{\mathrm{s}}$ coating and NEW SPECIAL COATING



THERMO JP^{+®} is a new EDM wire : Its auto-threading ability is highly reliable. **THERMO JP**^{+®} allows a very high level of cleanliness.

Its surface finish is exceptional (Ra= 0,2 μm)

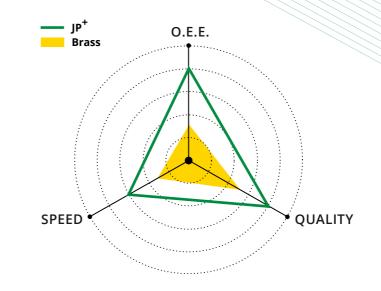
THERMO JP^{+®} is the excellent alternative to a brass wire for high productivity.

Next generation of EDM wire, THERMO JP^{+®} is a very good polyvalent EDM wire whatever the technology or the machine. ts cleanliness is remarkable.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THER	MO JP ⁺	T125	T160	T200	K250	JP5	JP10	JP15
0,20 mm 0.008"	JP+							
0,25 mm 0.010"	JP+							
0,30 mm 0.012″	JP+							

CHARACTERISTICS

Core	Brass 60/40
Coating	$\gamma \text{Cu}_{\text{s}}\text{Zn}_{\text{s}} \text{and}$ new special coating
Tensile Strength	>900 N/mm ²
Elongation	2%
Conductibility	22% IACS



MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA

SPEED & PRECISION 39

LATEST INNOVATION WITH A SPECIAL COATING: EXTREMELY HIGH AUTO-THREADING RELIABILITY. DEDICATED TO JAPANESE

PATENT RELATED

US 8067 689 F 856118







SUPER PRECISION & SPEED 41

PRECISION

WIRES DEDICATED

- THERMO SA^{+®}
- THERMO SA®

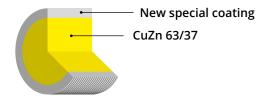
THERMO SWA®

THERMO SWS®

THERMO A®



MONOPHASED α BRASS CORE. PATENTED γ PHASE COATING AND NEW SPECIAL COATING



THERMO SA^{+®} is highly recommended for EDM machines from GFMS AgieCharmilles.

THERMO SA^{+®} allows the combination of high machining speed (main cut : more than 5% compared to **THERMO SR**[®]) and a very clean finish along the cut surfaces (Ra = 0,05 µm in carbide).

High degree of cleanliness.

Next generation of EDM wire, THERMO SA^{+®} is particularly suited for carbide cutting.

USAGE RECOMMENDED







CHARACTERISTICS

Core	Brass 63/37
Coating	$\gamma \text{Cu}_{\text{s}}\text{Zn}_{\text{s}} \text{and}$ new special coating
Tensile Strength	900 N/mm ²
Elongation	2%
Conductibility	21% IACS



SPOOLS: AVAILABLE SOON

SUPER PRECISION & SPEED 43

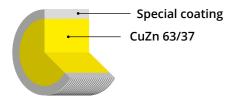
LATEST INNOVATION WITH A SPECIAL COATING FOR EXTREME PRECISION AND SPEED

PATENT PENDING





MONOPHASED α BRASS CORE. PATENTED γ PHASE COATING



THERMO SA[®] is a selected coating for excellent precision and surface finish. It is highly recommended for the latest generation of EDM machines from GFMS AgieCharmilles.

THERMO SA[®] has a special coating that allows high machining speed, and a very clean finish along the cut surfaces (Ra = 0,05 µm in carbide).

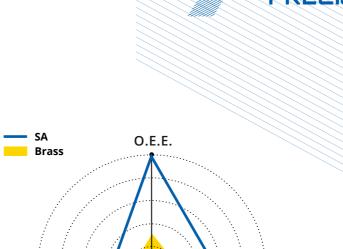
Combined to a powerful generator, THERMO SA® can reduce up to 20% the costs of machined parts.

Particularly suitable for extremely fine precision cuts and for steel or carbide cutting plates.

Highest stability and accuracy, excellent surface finish. Dedicated technology on GFMS Cut 2000 and Cut 3000 machines.

USAGE RECOMMENDED





SA SA

SPEED

AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERMO S	A 900 / 500 / 400	K100	T125	T160	T200	K250	JP5	JP10	JP15
0,07 mm 0.003″	900	•							
0,10 mm 0.004″	900	-							
0,127 mm 0.005″	900								
0,15 mm 0.006″	900								
0,20 mm 0.008″	900 / 500 / 400								•
0,25 mm 0.010"	900 / 500 / 400					-			
0,30 mm 0.012″	900 / 500 / 400								

QUALITY

CHARACTERISTICS

Core	Brass 63/37
Coating	γ Cu ₅ Zn ₈
Tensile Strength	900 N/mm ²
Elongation	2%
Conductibility	21% IACS



SUPER PRECISION & SPEED 45

THE MARKET REFERENCE FOR SURFACE FINISH AND PRECISION

PATENT RELATED

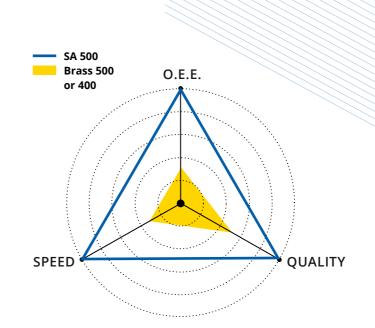


MONOPHASED α BRASS CORE, PATENTED β + γ PHASE COATING

CHARACTERISTICS

Core	Brass 63/37
Coating	β CuZn and γ Cu_{5}Zn_{8}
Tensile Strength	500 N/mm ²
Elongation	20%
Conductibility	25% IACS

Due to its special surface coating and its quality, **THERMO SA 500** [®] combines a perfect surface finish and an excellent productivity in unfavorable machining conditions. **THERMO SA 500** [®] is particularly suitable for tapered cuts up to 15°.



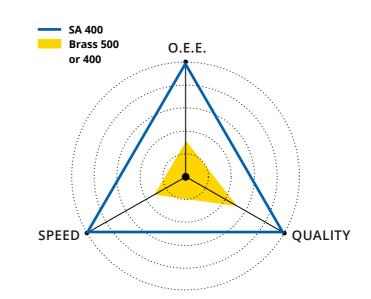
MONOPHASED α BRASS CORE, PATENTED β + γ PHASE COATING

CHARACTERISTICS

Core	Brass 63/37
Coating	β CuZn and γ Cu_{5}Zn_{8}
Tensile Strength	400 N/mm ²
Elongation	30%
Conductibility	26% IACS

THERMD SR 400[®], with its special surface coating and its quality, is particularly suitable for tapered cuts up to 45° with appropriate wire guides and software.

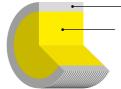
For the new generation of EDM machines, **THERMO SR 400** [®] is a good alternative to the **THERMO SWW**[®], for more cleanliness and precision.



SUPER PRECISION & SPEED 47

THE PERFECT WIRE FOR TAPERED CUTTING: HIGH PRECISION AND CLEAN FINISH, RECOMMENDED FOR AGIE CUT200, CUT300 AND CUT400 MACHINES





Special coating
 CuZn 63/37

PATENT RELATED

EP 1 009 574 US 5 945 010 EP 1 949 995 US 8 338 735 CN ZL 2008 1 0009227.7 TW i350780 KR 10-1 653 551

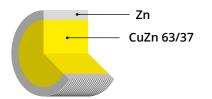
USAGE RECOMMENDED







BRASS CORE. ZINC COATING



THERMO SWR[®] has an excellent straightness and a zinc coating of very high purity.

It obtains high geometric precision and a perfect finish of the machined parts.

THERMO SWR[®] is recommended for a large range of standard applications: manufacture of molds, cutting tools, mechanical works requiring extreme accuracy and excellent quality of surface cutting (Ra = 0,10 μ m in steel).

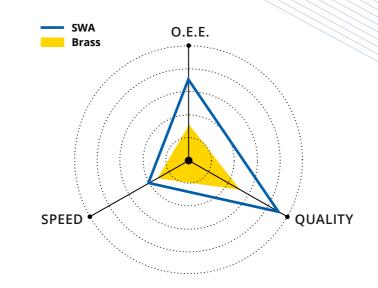
THERMO SWR[®] has a low brass contamination of the part with reduced risk of corrosion in water dielectric, especially for H13 steel and tungsten carbide.

Highly proven reliability during machining, THERMO SWA[®] is suitable for automatic threading.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	IO SWA	K100	T125	T160	T200	K250	JP5	JP10	JP15
0,07 mm 0.003"	SW07A	-							
0,10 mm 0.004"	SW10A	-							
0,127 mm 0.005″	SW0127A								
0,15 mm 0.006"	SW015A								
0,20 mm 0.008"	SW20A								
0,25 mm 0.010"	SW25A								
0,30 mm 0.012″	SW30A								

CHARACTERISTICS

Core	Brass 63/37
Coating	Zinc
Tensile Strength	900 N/mm ²
Elongation	1.5%
Conductibility	22% IACS



SUPER PRECISION & SPEED 49

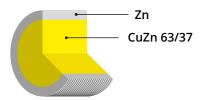
THE REFERENCE FOR MACHINING WITH EXCELLENT SURFACE FINISH, REDUCED RISK OF **CORROSION FOR THE PART**

PATENT RELATED

EP 1 379 353 US 8 519 294



BRASS CORE. ZINC COATING



THERMO SWS[®] has a high elongation coefficient, a zinc coating of very high purity and is suitable for automatic threading.

Due to its superior conductibility, **THERMO SWS**[®] is recommended for conical tapered cutting.

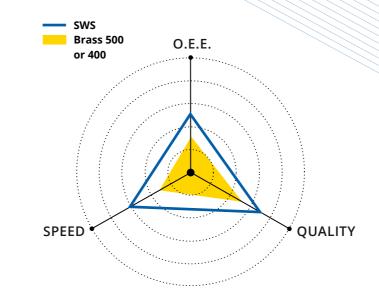
It obtains high precision in machining complex parts with an angle of more than 7° and below 15°. It provides excellent surface finish in unfavorable conditions.

Its technical characteristics provide homogeneity and high level of surface quality in all machining conditions.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERM	IO SWS	K100	T125	T160	T200	K250	JP5	JP10	JP15
0,20 mm 0.008″	SW20A								
0,25 mm 0.010"	SW25A				•				
0,30 mm 0.012"	SW30A								

CHARACTERISTICS

Core	Brass 63/37
Coating	Zinc
Tensile Strength	450 N/mm ²
Elongation	15%
Conductibility	25% IACS





HOMOGENEITY, HIGH QUALITY, SUITABLE FOR TAPER CUTS OF ANGLES ABOVE 7° AND BELOW 15°

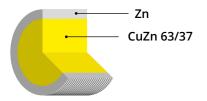
PATENT RELATED

EP 1 379 353 US 8 519 294





BRASS CORE, ZINC COATING



THERMO R[®] was developed to meet the highest demands of users wire EDM machines. It is suitable for almost all EDM machines.

THERMO A[®] offers a very competitive price without compromising performance on precision, surface quality and threading.

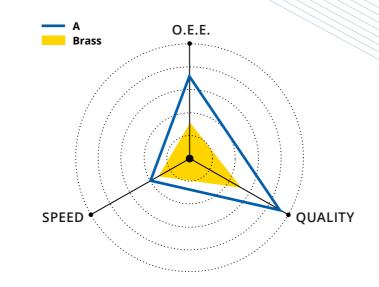
THERMO A[®] is recommended for a wide range of standard applications: manufacture of molds, cutting tools, mechanical works requiring extreme accuracy and excellent surface quality finish.

THERMO A[®] is a coated brass which provides a high performance with a very competitive price. THERMO R[®] obtains an exceptional surface finish: Ra = 0.15 μm.

USAGE RECOMMENDED







AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERMO A		K100	T125	T160
0,20 mm 0.008″	A20			
0,25 mm 0.010"	A25			
0,30 mm 0.012"	A30			

CHARACTERISTICS

Core	Brass 63/37
Coating	Zinc
Tensile Strength	900 N/mm ²
Elongation	1.5%
Conductibility	22% IACS



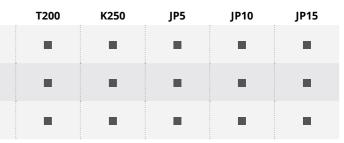
MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA

SUPER PRECISION & SPEED 53

SELECTED COATING, VERY GOOD SURFACE FINISH AND ACCURACY

PATENT RELATED

EP 1 379 353 US 8 519 294











WIRES DEDICATED

- THERMO brass 1000®
- THERMO brass 900®

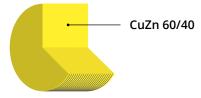
THERMO brass 500®

THERMO brass 400®

THERMO First 900 and 500 °

- ALL PURPOSE 55

THERMO brass 1000°



THERMO brass 1000[®] N/mm² is suitable for all EDM machines, and recommended for Japanese machines.

THERMO brass 1000[®] is produced with a very pure alloy, and provides an excellent surface quality and an ongoing performance.

THERMO brass 1000[®] is recommended for standard applications. It can produce high precision parts with excellent surface finish due to its very good geometry and its cleanliness.

Due to its specific alloy, THERMO brass 1000 [®] is recommended in particular for Fanuc, Mitsubishi, Hitachi and Sodick type machines.

USAGE RECOMMENDED

AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERMO E	BRASS 1000	K100	T125	T160	T200	K250	JP5	JP10	JP15
0,20 mm 0.008″	TB 1000								
0,25 mm 0.010″	TB 1000								
0,30 mm 0.012″	TB 1000								-

Other type of spools available only on special request.

CHARACTERISTICS

Core	Brass 60/40
Tensile Strength	1050 N/mm ²
Elongation	2.5%
Conductibility	22% IACS

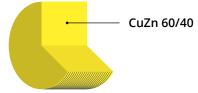


PURE 60/40 ALLOY, HIGH SURFACE QUALITY, HIGH CLEANLINESS. HIGH PRECISION PARTS

ILL RURRDSE



TurboBrass®



Thermocompact has developed an innovative manufacturing process that allows us to offer our TurboBrass[®] wire with the following benefits:

- > UNIVERSAL USAGE with WEDM Brass machining parameters
- **UP TO 15% FRSTER** than conventional brass wire
- Good THREADING ABILITY
- Exceptional **CLEANLINESS**
- COMPETITIVE PRICE

TurboBrass[®] has confirmed its performance since 2015.

USAGE RECOMMENDED

AVAILABILITY BY SPOOL TYPE AND DIAMETER

TURBO	OBRASS	K100	T125	K160	K200	K250	JP5	JP10	JP15
0,20 mm 0.008"	ТВ							•	•
0,25 mm 0.010"	ТВ								
0,30 mm 0.012"	ТВ							•	

Other type of spools available only on special request.

CHARACTERISTICS

Core	Brass 60/40
Tensile Strength	900 MPa
Elongation	2.5%
Conductibility	22% IACS





ALL RURROSE SS





THERMO brass 900°

CHARACTERISTICS

Core	Brass 63/37 - Brass 60/40
Tensile Strength	900 N/mm ²
Elongation	1.5%
Conductibility	22% IACS

THERMO brass 900[®] N/mm² is suitable for all type of EDM machines.

THERMO brass 900 [®] is recommended for standard applications requiring extreme accuracy and a good surface finish.

USAGE RECOMMENDED





CuZn 63/37

THERMO brass 500.



CHARACTERISTICS

Core	Brass 63/37
Tensile Strength	500 N/mm ²
Elongation	20%
Conductibility	25% IACS

THERMO brass 500 ® N/mm ² is suitable for all type of EDM machines. It is recommended for standard applications for machining complex parts requiring high taper angle cutting of the wire up to 12°.

USAGE RECOMMENDED





CHARACTERISTICS

Core	Brass 63/37
Tensile Strength	450 N/mm ²
Elongation	25%
Conductibility	26% IACS

AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERMO BR	ASS 900 / 500 / 400	K100	T125	T160	T200	K250	K355	JP5	JP10	JP15
0,10 mm 0.004″	900									
0,15 mm 0.006″	900									
0,20 mm 0.008"	900, 500, 400									
0,25 mm 0.010"	900, 500, 400									
0,30 mm 0.012"	900, 500, 400									•

MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA

HIGH GRADE OF 63/37 ALLOY RECOMMENDED FOR ALL TYPE OF EDM MACHINES

ALL PURPOSE (6)

THERMO brass 400[®] is suitable for all type of EDM machines.

THERMO brass 400[®] N/mm² is recommended for machining complex parts that require high taper angle cutting of the wire up to 20°.

USAGE RECOMMENDED



CLICK HERE FOR MORE INFORMATIONS

THERMO First 900°



CHARACTERISTICS

Core	Brass 63/37
Tensile Strength	900 N/mm ²
Elongation	1.5%
Conductibility	22% IACS

THERMO First 900 [®] is developed with full automatic production process.



CuZn 63/37

THERMO First 900[®] and THERMO First 500 [®] offer the benefits of a brass wire associating quality and competitive prices. They are recommended for standard applications.

THERMO First 500°



CHARACTERISTICS

Core	Brass 63/37
Tensile Strength	500 N/mm ²
Elongation	1.5%
Conductibility	22% IACS

THERMO First 500 [®] is developed with full automatic production process.



AVAILABILITY BY SPOOL TYPE AND DIAMETER

THERMO FI	RST 900 - 500	K100	T125	T160	T200	K250	K355	JP5	JP10	JP15
0,20 mm 0.008″	First 900 First 500									
0,25 mm 0.010"	First 900 First 500									
0,30 mm 0.012"	First 900 First 500									

STANDARD BRASS WIRE, WITH A COMPETITIVE PRICE

ALL RURROSE

USAGE RECOMMENDED









THERMO ZF sigma®

THERMO ZF*®

THERMO ZF®

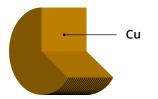
WIRES DEDICATED



Zinc free Wire



PLAIN COPPER



THERMO ZF[®] is a new EDM wire, free of zinc. Recommended especially when no zinc deposit is mandatory.

The **THERMO ZF**[®] wire is an economically priced wire.

Convenient for all machining usage THERMO ZF[®] is particularly recommended for the cutting of nickel-based alloy.

USAGE RECOMMENDED



AVAILABILITY BY SPOOL TYPE AND DIAMETER

THER	MO ZF	T125	T160	T200	K250	JP5	JP10	JP15
0,20 mm 0.008″	ZF							
0,25 mm 0.010"	ZF							
0,30 mm 0.012″	ZF							

CHARACTERISTICS

Material	Cu 100%
Tensile Strength	500N/mm ²
Elongation	1.4%
Conductibility	94% IACS



MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA



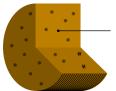
ZINC FREE 67



Zinc free Wire



SPECIAL MICRO ALLOYED COPPER



Special micro alloyed copper

THERMO ZF^{+®} is a new EDM wire free of zinc with a special micro allied copper.

It offers a processing speed higher than **THERMO ZF^{+®}** and maintain its high tensile strength.

Its special micro allied copper allows THERMO ZF^{+®} to obtain a high tensile strengt.

USAGE RECOMMENDED





AVAILABILITY BY SPOOL TYPE AND DIAMETER

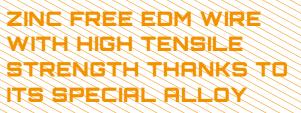
THERM	MO ZF ⁺	T125	T160	T200	K250	JP5	JP10	JP15
0,20 mm 0.008"	ZF+							-
0,25 mm 0.010"	ZF+							
0,30 mm 0.012"	ZF+							-

CHARACTERISTICS

Material	Special micro alloyed copper				
Tensile Strength	800N/mm ²				
Elongation	2.7%				
Conductibility	72% IACS				



MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA





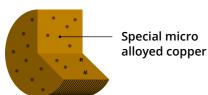
ZINC FREE 69

TURBINE BLADE



Zinc free Wire

SPECIAL MICRO ALLOYED COPPER



THERMO ZF sigma[®] is a new EDM wire without zinc, offering superior performances :

- high processing speed,
- > high conductibility.

The **THERMO ZF sigma**[®] is dedicated to aerospace production, particularly for nickel base alloys.

It is particularly recommended to improve the speed when cutting nickel based alloys and obtaining a straight part. Non volatile elements during machining process.

USAGE RECOMMENDED





CHARACTERISTICS

Material	Spécial micro
	alloyed copper
Tensile Strength	800N/mm ²
Floregation	2 to 6%
Elongation	3 to 6%
Conductibility	93% IACS
Conductionity	93% IACS



SPOOLS: AVAILABLE SOON

MANUFACTURED IN EUROPE BY THERMOCOMPACT MANUFACTURED IN ASIA BY HWA



ZINC FREE



HIP PROTHESIS



PLAN YOUR PRODUCTION

ТҮРЕ	DIAM	ETER	PER SP		EIGHT NOMINAL LENGTH		10m/min 12m/min 33 ft/min 39,4 ft/min			16m/min 52,5ft/min
	mm	inch	kg	lbs	m	ft	h	h	h	h
K100	0.07	0.003	1.8	4	58500	191929	98	81	65	61
	0.10	0.004	1.8	4	27000	88582	45	38	30	28
	0.127	0.005	1.8	4	16800	55118	28	23	19	18
	0.15	0.006	1.8	4	12000	39370	20	17	13	13
K125	0.10	0.004	4	8.8	60000	196850	100	83	67	63
T125	0.127	0.005	4	8.8	37300	122375	62	52	41	39
	0.15	0.006	4	8.8	26700	87598	45	37	30	28
	0.20	0.008	4	8.8	14900	48884	25	21	17	16
	0.25	0.01	4	8.8	9600	31496	16	13	11	10
	0.30	0.012	4	8.8	6600	21653	11	9	7	7
K160	0.127	0.005	8	17.6	74600	244750	124	104	83	78
T160	0.15	0.006	8	17.6	53400	175196	89	74	59	56
	0.20	0.008	8	17.6	29900	98097	50	42	33	31
	0.25	0.01	8	17.6	19200	62992	32	27	21	20
	0.30	0.012	8	17.6	13200	43307	22	18	15	14
	0.33	0.013	8	17.6	10700	35105	18	15	12	11
K200	0.20	0.008	16	35.2	59800	196194	100	83	66	62
T200	0.25	0.01	16	35.2	38400	125984	64	53	43	40
	0.30	0.012	16	35.2	26500	86942	44	37	29	28
	0.33	0.013	16	35.2	21400	70210	36	30	24	22
K250	0.25	0.01	25	55	60000	196850	100	83	67	63
	0.30	0.012	25	55	41400	135826	69	58	46	43
	0.33	0.013	25	55	33400	109580	56	46	37	35
K355	0.25	0.01	45	99	106000	347768	177	147	118	110
	0.30	0.012	45	99	73500	241141	123	102	82	77
	0.33	0.013	45	99	60700	199146	101	84	67	63

SPOOL MACHINING DURATION FOR 1 SPOOL

						STOOL MACHINING DORATION FOR TSTOOL				
						10m/min 33 ft/min	12m/min 39,4 ft/min	15m/min 49,21ft/min	16m/min 52,5ft/min	
mm	inch	kg	lbs	m	ft	h	h	h	h	
0.10	0.004	5	11	75000	246062	125	104	83	78	
0.13	0.005	5	11	46700	153215	78	65	52	49	
0.15	0.006	5	11	33500	109908	56	47	37	35	
0.20	0.008	5	11	18700	61352	31	26	21	19	
0.25	0.01	5	11	12000	39370	20	17	13	13	
0.30	0.012	5	11	8300	27231	14	12	9	9	
0.20	0.008	10	22	37500	123031	63	52	42	39	
0.25	0.01	10	22	24000	78740	40	33	27	25	
0.30	0.012	10	22	16600	54462	28	23	18	17	
0.20	0.008	20	44	74800	245406	125	104	83	78	
0.25	0.01	20	44	48000	157480	80	67	53	50	
0.30	0.012	20	44	33100	108595	55	46	37	34	
0.33	0.013	20	44	26500	86942	44	37	29	28	
	DIAM mm 0.10 0.13 0.20 0.20 0.25 0.30 0.20 0.20 0.25 0.30 0.20 0.25 0.30	0.10 0.004 0.13 0.005 0.15 0.006 0.20 0.008 0.25 0.01 0.30 0.012 0.25 0.01 0.30 0.012 0.25 0.01 0.30 0.012 0.30 0.012 0.30 0.012 0.30 0.012 0.25 0.01 0.30 0.012	DIAMETER PER SP mm inch kg 0.10 0.004 5 0.13 0.005 5 0.13 0.006 5 0.15 0.006 5 0.20 0.008 5 0.25 0.01 5 0.30 0.012 5 0.20 0.008 10 0.25 0.01 10 0.20 0.008 20 0.30 0.012 20 0.30 0.012 20	DIAMETERPER SPOL *mminchkglbs 0.10 0.004 5 11 0.13 0.005 5 11 0.15 0.006 5 11 0.20 0.008 5 11 0.20 0.008 5 11 0.30 0.012 5 11 0.25 0.01 5 11 0.20 0.008 10 22 0.30 0.012 10 22 0.20 0.008 20 44 0.25 0.01 20 44 0.30 0.012 20 44	DIAMETERPER SPOCL*PER SPmminchkglbsm 0.10 0.004 5 11 75000 0.13 0.005 5 11 46700 0.15 0.006 5 11 33500 0.20 0.008 5 11 18700 0.20 0.008 5 11 18700 0.25 0.01 5 11 8300 0.20 0.008 10 22 37500 0.20 0.012 10 22 16600 0.30 0.012 20 44 48000 0.30 0.012 20 44 33100	DIAMETERPER SPOCL *PER SPOCL *mminchkglbsmft 0.10 0.004 5 11 75000 246062 0.13 0.005 5 11 46700 153215 0.15 0.006 5 11 33500 109908 0.20 0.008 5 11 18700 61352 0.25 0.01 5 11 18700 39370 0.30 0.012 5 11 8300 27231 0.20 0.008 10 22 37500 123031 0.25 0.01 10 22 16600 54462 0.20 0.008 20 44 74800 245406 0.25 0.01 20 44 48000 157480 0.30 0.012 20 44 33100 108595	WIR DIAMETERNOMINAL WEIGHT PER SPOL*NOMINAL ENGTH PER SPOL*10m/min 33 ft/minmminchkglbsmfth0.100.004511750002460621250.130.00551146700153215780.150.00651133500109908560.200.0085111870061352310.250.015111200039370200.300.012511830027231140.200.008102237500123031630.250.0110221660054462280.200.008204474800157480800.250.0120443310010859555	WIR DIAMETERNOMINAL WEIGHT PER SPOL*NOMINAL LENGTH PER SPOL*10m/min 33 ft/min12m/min 39,4 ft/minmminchkglbsmfth0.100.004511750002460621251040.130.0055114670015321578650.150.0065113350010990856470.200.0085511187006135231260.250.015111200039370200170.300.012511830027231144120.200.00810223750012303163520.250.011022166005446228230.200.0082044748002454061251040.250.012044331001085955546	WIR DIAMETERNOMINAL VEIGHT PER SPOL*NOMINAL ENGTH PER SPOL*10m/min 33 ft/min12m/min 49,21ft/minmminchkglbsmfthh0.100.0045117500246062125104830.130.00555114670015321578655520.150.00655113350010990856477370.200.0085511187006135231260210.250.015511120003937020177130.300.01255118300272311441290.200.0081022375001230316352420.250.01102216600544622823180.200.008204474800245406125104830.250.01204433100108595554637	

* Average weight and length

STANDARD DIN

SPOOL MACHINING DURATION FOR 1 SPOOL

STANDARD JP

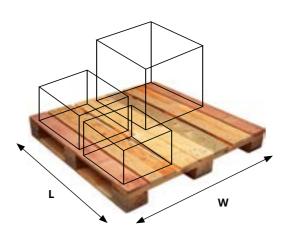
DATA FOR PLANNING YOUR DEMAND AND STORAGE

SPOOL TYPE	SPOOL WEIGHT	SPOOLS PER PALLET	SPOOLS PER BOX	WEIGHT PER BOX	BOXES PER LAYER NUMBER OF LAYER	NET WEIGHT PER PALLET
K100	1,8 Kg 4 Lbs	diam 0,07 / 0,10 36	4 (with individual pre packaging in box)	7,2 Kg 16 Lbs	6 boxes 1 layer + 3 boxes	64,8 kg 144 lbs
	2 Kg 4,4 Lbs	diam 0,10 24	2 (with individual pre packaging in box)	8kg 8,8 lbs	6 boxes 2 layers	96 kg 140.8 lbs
K125		diam 0,10 0,127 / 0,15	1	4kg 8,8 lbs	24 boxes 2 layers	192 kg
T125	4 Kg 8,8 Lbs	48	2 (with individual pre packaging in box)	8kg 17,6 lbs	10 boxes 2 layers + 4 boxes	423.3 lbs
		diam 0,20 / 0,25 / 0,30 96	4	16kg 32,2 lbs	6 boxes 4 layers	384 kg 844.8 lbs
K160	8 Kg	diam 0,15 30 (half pallet)	2	35,2 lbs	10 boxes. 1 layer + 5 boxes	240 kg 528 lbs
T160	17,6 Lbs	diam 0,20 / 0,25 / 0,30 / 0,33 60	2	16kg	10 boxes 3 layers	480 kg 1056 lbs
K200 T200	16 Kg 35,2 Lbs	24	1	16 Kg 35,2 Lbs	12 boxes 2 layers	384 kg 844.8 lbs
K250	25 Kg 55 Lbs	18	1	25 kg 55 lbs	9 boxes 2 layers	450 kg 990 lbs
K355	45Kg 99 Lbs	6	1	45kg 99 lbs	6 box 1 layer	270 kg 594 lbs
105	5 Kg	diam 0,15 48	4	20 kg	6 boxes 2 layers	240 kg 528 lbs
JP5 J11 Lbs	11 Lbs	96	4	44 lbs	6 boxes 4 layers	480 kg 1056 lbs
JP10	10 Kg 22 Lbs	36	2	20 kg 44 lbs	6 boxes 3 layers	360 kg 792 lbs
JP15	20 Kg 44 Lbs	24	1	20 kg 44 lbs	12 boxes 2 layers	480 kg 1056 lbs

PALLET DIMENSIONS

PALLET TYPE	LENGTH (L)	WIDTH (W)
EU (European pallet, no	120 cm	80 cm
consigned)	47,2 in	31,5 in
North America (US pallets, no	111 cm	79 cm
wooden crates). IPP certified	43,7 in	31,1 in
Asia (wooden crates)	112 cm	79 cm
IPP certified	44,1 in	31,1 in

Maximum weight per pallet: 700 kg

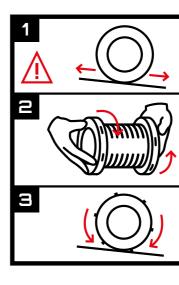


TECSPOOL® BY THERMOCOMPACT



WAY OF FUNCTIONING

One manual rotation of the side flange is enough to free the lock bolts of the spool.



SPOOLS STORAGE RECOMMENDATIONS







KEEP DRY, DO NOT OPEN THE PACKAGING BEFORE USE

ANTI ROTATION SYSTEM PATENTED

FOR A BETTER **STORAGE** AND **HANDLING**

AVAILABLE FOR T125, T160 ET T200 EDM WIRE SPOOLS

TECSPOOL[®] BENEFITS

- > Spool is stopped in horizontal position

75

- Stability guaranteed on incline surface up to 30% slope.
- > TecSpool[®] avoids wire tangles of the outer layer
- > Easy storage display
- Flanges are made with recycled material



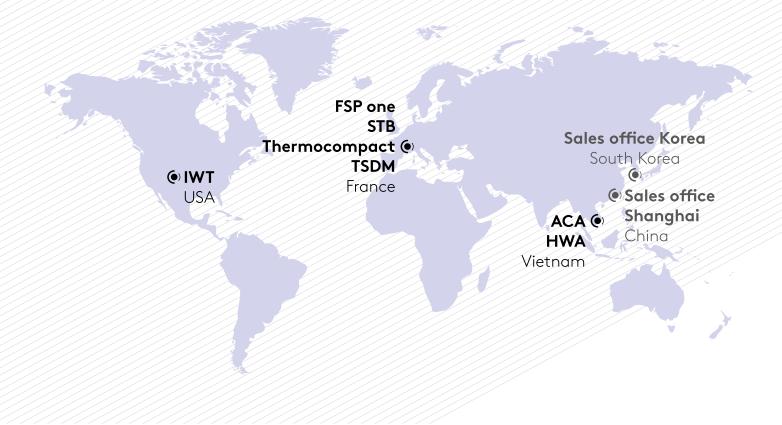




WIRE TO **BE USED WITHIN 18 MONTHS**



WHERE TO FIND US



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