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## 1. GENERAL SPECIFICATIONS

THERMO SA 500® and THERMO SA 400® have a special coating that allows high machining speed, perfect surface finish and an excellent productivity in unfavorable machining conditions.

## 2. DETAILED CHARACTERISTICS

CORE:	Brass 63/37	
COATING:	Beta CuZn and Gamma CuZn	
DIAMETER TOLERANCE:	- 2 µm maxi	
OVALISATION:	1 µm maxi	
TENSILE STRENGTH:	THERMO SA 500 N/mm <sup>2</sup>	THERMO SA 400 N/mm <sup>2</sup>
YIELD STRENGTH:	330 N/mm <sup>2</sup>	250 N/mm <sup>2</sup>
ELONGATION:	20%	30%
CONDUCTIBILITY:	25% IACS	26% IACS

## 3. USAGE RECOMMENDED

**USE ON MACHINE:** GFMS AgieCharmilles.

**USAGE RECOMMENDED:** Dies and tools, medical, fine mechanic.

**MATERIAL:** Steel, copper, tungsten carbide, aluminium, nickel, titanium, PCD

## 4. PATENTS

EP 1 009 574

US 5 945 010

EP 1 949 995

US 8 338 735

CN ZL 2008 1 0009227.7

TW i 350780

Manufactured in Europe by Thermocompact.

Manufactured in Asia by HWA.

## 5. TESTS AND COMPARISON PERFORMANCES

**THERMO SA 500®** combines a perfect surface finish and an excellent productivity in unfavorable machining conditions. It is particularly suitable for tapered cuts up to 15°.

**THERMO SA 400®** is a good alternative to **THERMO SWW®**, for more cleanliness and precision. With its special surface coating and its quality, **THERMO SA 400®** is particularly suitable for tapered cuts up to 45° with appropriate wire guides and software.

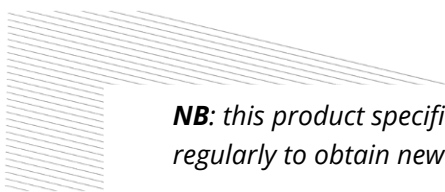
## 6. BENEFITS RESUME / AVAILABILITY

**THERMO SA 500®** and **THERMO SA 400®** :

- ⇒ Surface finish :
  - Very high surface finish
- ⇒ Machining time
  - Excellent productivity in unfavorable machining conditions
- ⇒ Competitive advantage secured by patents

### AVAILABILITY:

<b>THERMO SA 500®/400®</b>	<b>K100</b>	<b>T125</b>	<b>T160</b>	<b>T200</b>	<b>K250</b>	<b>JP5</b>	<b>JP10</b>	<b>JP15</b>
0,20 mm 0,008"			■	■		■	■	■
0,25 mm 0,010"		■	■	■	■	■	■	■
0,30 mm 0,012"			■	■	■		■	■



**NB:** this product specification sheet is upgraded on a regular basis, please check it regularly to obtain new tests and comparison performances.