

## topas® plus

### The right wire for every application

#### topas® plus X

- New gamma phase wire with high precision and up to 35% higher cutting speed as compared to brass wire
- Developed especially for the X technology on Charmilles machines
- Can be used immediately without modifying the machine settings

#### topas® plus D

- New high performance wire for all machines which require straightened wires for threading
- Hard gamma phase wire, specially suited for tall parts
- Attractive price-performance ratio with significant time and cost saving benefits

#### topas® plus H

- Gamma phase wire with high tensile strength
- Up to 20% shorter cutting time as compared to brass wire
- Particularly suited for machines which require straightened wires for threading

#### topas® plus S

- Gamma phase wire with high elongation
- Up to 20% shorter cutting time as compared to brass wire
- Universally applicable on Charmilles machines
- Perfectly suited for taper cutting on all other machine types

## topas® plus

### That's how profit is made

The advantages of the **topas® plus** family at a glance. See for yourself:

- High cutting rates along with an attractive price-performance ratio
- Universally applicable for all machines and standard purposes
- Significant time and cost saving benefits
- High reliability due to the well-proven bedra quality
- High precision for demanding work
- High process stability even under unfavourable flushing conditions



Less cost  
Your advantage!  
More productivity

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Others are talking about productivity.  
We manufacture it: **topas® plus**.  
The high performance wire.

授权代理商

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**bedra**  
intelligent wires

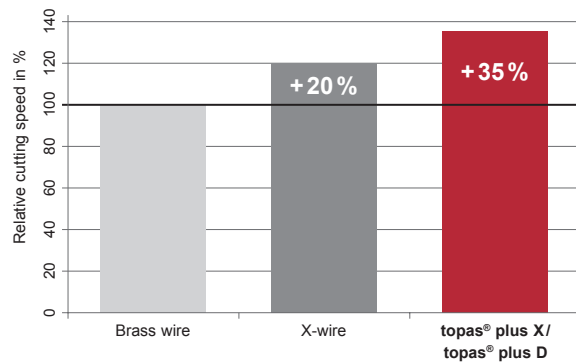
**bedra**  
intelligent wires

## topas® plus

### The clever alternative to brass wire

The high quality wire electrodes **topas® plus** are setting standards in cutting performance, precision and process assurance – and attain an excellent surface quality with maximum profitability. **topas® plus** is universally applicable for all classical wire cutting works. Your expenses for scheduling, storage and logistics will decline considerably. This makes **topas® plus** the innovative alternative to brass wire that optimises your mould and tool making.

**topas® plus X** and **topas® plus D** allow a better exploitation of the performance potential of modern generators. Peak cutting speeds are reached combined with a high degree of process assurance.



Source: bedra EDM laboratory

**topas® plus X** and **topas® plus D** perform up to 35% faster than brass wire. That means for you: 35% shorter cutting time and 35% less production cost!

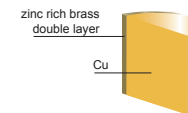
## The topas® plus-types in detail



### topas® plus X

	Core material	Coating material	Tensile strength	Elongation
topas® plus X	Cu	zinc rich brass, double layer	500 N/mm <sup>2</sup> 72,500 PSI	1%

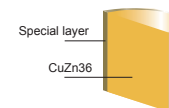
Ø [mm]	0.25	0.30	0.33
Ø [inch]	0.010	0.012	0.013
Spools/kg bedra® 8/8.0 bedra® 16/16.0	•	•	•
Spools/kg K250/25.0 K355/45.0	•	•	•
Spools/kg P5/5.0 P10/10.0 P15/20.0	•	•	•



### topas® plus S

	Core material	Coating material	Tensile strength	Elongation
topas® plus S	CuZn36	Special layer	500 N/mm <sup>2</sup> 72,500 PSI	>10%

Ø [mm]	0.20	0.25	0.30
Ø [inch]	0.008	0.010	0.012
Spools bedra® 8 bedra® 16	•	•	•
Spools/kg K250/25.0 K355/45.0	•	•	•
P5/5.0 P10/10.0 P15/20.0	•	•	•



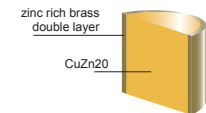
## The topas® plus-types in detail



### topas® plus D

	Core material	Coating material	Tensile strength	Elongation
topas® plus D	CuZn20	zinc rich brass, double layer	800 N/mm <sup>2</sup> 116,000 PSI	>1%

Ø [mm]	0.25	0.30	0.33
Ø [inch]	0.010	0.012	0.013
Spools bedra® 8 bedra® 16	•	•	•
Spools/kg K250/25.0 K355/45.0	•	•	•
Spools/kg P5/5.0 P10/10.0 P15/20.0	•	•	•



### topas® plus H

	Core material	Coating material	Tensile strength	Elongation
topas® plus H	CuZn36	Special layer	800 N/mm <sup>2</sup> 116,000 PSI	1%

Ø [mm]	0.20	0.25	0.30	0.33
Ø [inch]	0.008	0.010	0.012	0.013
Spools bedra® 8 bedra® 16	•	•	•	•
Spools/kg K250/25.0 K355/45.0	•	•	•	•
P5/5.0 P10/10.0 P15/20.0	•	•	•	•

