

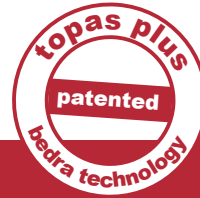
| | topas® plus G | topas® plus H | topas® plus S | topas® plus X | topas® plus D |
|---|--|--|---|---|---|
| General | Special electrode that combines high cutting performance with highest precision | Universal electrode for very cost-effective erosion processes | Special electrode for efficiently cutting tapered work pieces | High-speed cutting electrode, further development of bronco cut X | High-speed cutting electrode, further development of cobraco cut D |
| Developed for use with: | Agie machines (water and oil bath) | Machines by all leading manufacturers | Machines by all manufacturers | Charmilles machines | Agie and Japanese machines |
| Cutting performance vs. brass wire | High cutting performance (110%) | High cutting performance (120%) | High cutting performance (120%) | Highest cutting performance (135%) | Highest cutting performance (135%) |
| Surface quality / precision | <ul style="list-style-type: none"> Oil bath: up to Ra 0.05 µm Water bath: up to Ra 0.12 µm Outstanding precision in contour and parallelism | <ul style="list-style-type: none"> Up to Ra 0.30 µm Very high precision | <ul style="list-style-type: none"> Up to Ra 0.30 µm Very high precision | <ul style="list-style-type: none"> Up to Ra 0.30 µm Very high precision | <ul style="list-style-type: none"> Up to Ra 0.4 µm Very high precision |
| Automatic threading | Very good | Very good | Limited suitability | Very good | Good |
| Technology recommendation | Excellent for using with OEM technologies for A wire | <ul style="list-style-type: none"> OEM technologies on Agie machines available Universally applicable with brass wire technologies | Good for using with technologies for soft brass wire | Excellent for using with OEM technologies for X wire | Good for using with brass wire technologies; by technological optimization enormous potential for increasing cutting performances |

topas® plus

That's how profit is made

topas® plus delivers many benefits compared to standard electrodes by other manufacturers:

1. High cutting rates along with an attractive price-performance ratio
2. Highest precision even when tasks are demanding
3. High process stability, particularly in unfavourable flushing conditions
4. An optimum topas® plus electrode is available for all applications
5. Considerable time and cost savings may already be achieved with standard cutting technologies
6. Highest reliability due to the well-proven bedra quality



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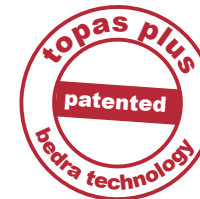
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topas® plus –
 the high-performance wires for greater
 cutting performance and precision



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 intelligent wires



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 intelligent wires

topas® plus

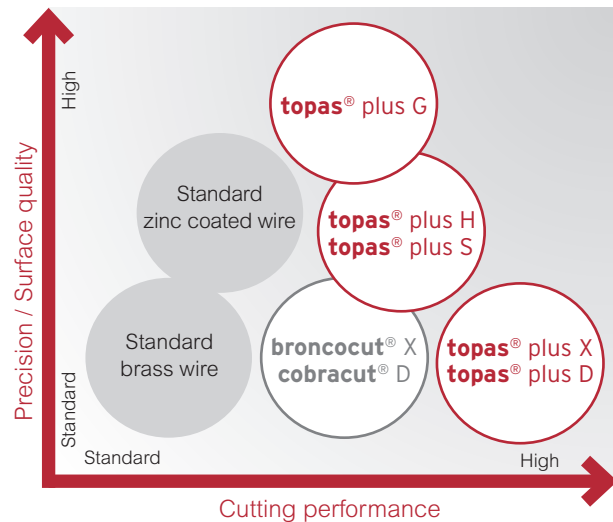
The new dimension in cost-effectiveness and reliability

The high-quality topas® plus wire electrodes by Berkenhoff are the benchmark by which cutting performance, process reliability, precision and surface quality are measured.

topas® plus delivers tailor-made solutions for all common EDM machines. Both the type of machine and your application are decisive in your choice of the topas® plus wire that will deliver the best cutting result for your company. The reduction in the wire qualities you require is just one of the benefits that may be achieved with the comprehensive performance profile of these topas® plus electrodes.

We would be happy to assist you in choosing the topas® plus wire electrodes that are best suited to your requirements. Should you have any questions please contact your bedra specialist or get in touch directly with topasplus@bedra.com

topas® plus comparison



topas® plus range

topas® plus G

SUPERFINISH

| | core material | coating material | tensile strength | elongation |
|----------------------|---------------|------------------|------------------|------------|
| topas® plus G | CuZn36 | special layer | 900 MPa | 1% |

| Ø [mm] | 0,20 | 0,25 | | |
|--|------|------|--|--|
| spool / kg bedra 8/8,0 bedra 16/16,0 | • | • | | |
| spool / kg K250/25,0 | • | • | | |

topas® plus H

| | core material | coating material | tensile strength | elongation |
|----------------------|---------------|------------------|------------------|------------|
| topas® plus H | CuZn36 | special layer | 800 MPa | >1% |

| Ø [mm] | 0,20 | 0,25 | 0,30 | 0,33 |
|--|------|------|------|------|
| spool / kg bedra 8/8,0 bedra 16/16,0 | • | • | • | • |
| spool / kg K250/25,0 K355/45,0 | • | • | • | • |
| spool / 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 MPa | >10% |

| Ø [mm] | 0,25 | 0,30 | | |
|--|------|------|--|--|
| spool / kg bedra 8/8,0 bedra 16/16,0 | • | • | | |
| spool / kg K250/25,0 | • | • | | |

topas® plus X

| | core material | coating material | tensile strength | elongation |
|----------------------|---------------|-------------------------------|------------------|------------|
| topas® plus X | Cu | zinc rich brass, double layer | 500 MPa | 1% |

| Ø [mm] | 0,25 | 0,30 | 0,33 | |
|--|------|------|------|--|
| spool / kg bedra 8/8,0 bedra 16/16,0 | • | • | • | |
| spool / kg K250/25,0 K355/45,0 | • | • | • | |
| spool / kg P10/10,0 P15/20,0 | • | • | | |

topas® plus D

| | core material | coating material | tensile strength | elongation |
|----------------------|---------------|-------------------------------|------------------|------------|
| topas® plus D | CuZn20 | zinc rich brass, double layer | 800 MPa | >1% |

| Ø [mm] | 0,25 | 0,30 | 0,33 | |
|--|------|------|------|--|
| spool / kg bedra 8/8,0 bedra 16/16,0 | • | • | • | |
| spool / kg K250/25,0 K355/45,0 | • | • | • | |
| spool / kg P5/5,0 P10/10,0 P15/20,0 | • | • | | |

More information is available at

www.bedra.com

