

| Scope Directive 2014/68/EU according to Annex I §4.3 | | | | | Εl | N 764- | 4 | | AD 2000- Merkblatt W0 | | | FPC, Regulation (EU) No. 305/2011(System 2+) | | | | |
|--|---------------------------------|--|------------------------------|-----------------------|--|-----------|----------------|--|--------------------------|----------------------|--|--|-------|-------------------------|--|--|
| | | Manufad | cturer | | Work | | | | | | nality | Date | | Page No | | |
| Compa | any Name: Otto | Viersen-Dülken | | | | | German | | 10.05.2022 | | 1 | TÜV Rheinland Industrie Service | | | | |
| Location | on: Hei | | | | | | | | Rev.: 13 | of: | 5 | GmbH | | | | |
| Cur | | ials-term rials-No. | Material Specification | Delivery Cond. | Article Type of Product | | Dime | ensions | | | eight nax | Technical Specifications | | Remarks | | |
| | | | | | | ness | | | ⊘ i m | 1=t / | | Requirements Technical | | | 136759 136759 | |
| | | | | | | fro Up fr | | from | Up to | 2=kg ↓ res ult | | Regulations | | | | |
| 1 | 1 2 | | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | | 10 | | |
| of the a | Cı | respectively the Zn40 V509L) | DIN EN 12163 DIN EN 12167 | or the use of R360 | f material grades lis Bars | 6 | n colum 160 | 160 10 160 AD 2000-Merkblatt If the W 6/2 the a | | | ion range is outside I standard, a PMA is | | | | | |
| 02 | | Zn40 √509L) | DIN EN 12420 DIN EN 12165 | H070 | Forgings Wrought and unwrought | - | 120 | | | | | AD 2000-Merkb W 6/2 | olatt | requesteu. | | |
| 03 | | n39Pb3 /614N) | DIN EN 12164 DIN EN 12167 | R360 | forging stock Bars | 6 | 160 | 10 | 160 | | | AD 2000-Merkk W 6/2 | olatt | | ion range is outside I standard, a PMA is | |
| 04 | | n39Pb3 /614N) | DIN EN 12420 DIN EN 12165 | H070 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | AD 2000-Merkb W 6/2 | olatt | - 1 | | |
| 05 | (CW | n40Pb2 /617N) = solution anneale | DIN EN 12164 DIN EN 12167 | R360 | Bars | 6 | 160 | 10 | 160 | | | W 6/2 | | the approved requested. | ion range is outside I standard, a PMA is | |
| Remarks | <u>s</u> +AT +AR +M +N | | +QT = que +S = sof | | | | | a = PMA for the use in pressure equipment in Directive 2014/68/EU neccessary | | | | | | | | |



| a | Scope Directive 2014/68/EU according to Annex I §4.3 | | | | | ⊠ EN 764-4 | | | | | | AD 2000- lerkblatt W0 | FPC, Regulation (EU) No. 305/2011(System 2+) | | |
|--|--|---|--|------------------------------------|---------------------|------------|--------------|----------|----------|--------------|----------------------------|---|--|-----------------|-----------------------|
| | | Manufactur | er | | Work | | | | | | nality | Date | F | Page No | |
| Com | pany Name: Otto | Fuchs Dülken Gm | nbH & Co. KG | | Viersen-Dülken | | | | | Gei | man | 10.05.2022 | | 2 | TÜV Rheinland |
| | | | | | | | | | | | | | | | Industrie Service |
| Loca | tion: Hei | igenstr. 70, 41751 | Viersen-Dülken | | | | | | | | | Rev.: 13 | of : | 5 | GmbH |
| Cur | Materials-term Material Delivery Materials-No. Specification Cond. | | | Article Dimensions Type of Product | | | | | | eight nax | Technical Specification | ıs | | Remarks | |
| - | | | | | | | nick- ess | Q | | | Requirements | | | 3, 136750 | |
| | | | | | | r | nm | m | m | | =t / =kg | Technical Regulations | | | Sustrial Ser |
| | | | | | | fro | Up | from | Up | | res | _ | | | |
| 1 | | 2 | 3 | 4 | 5 | m 6a | to 6b | 7a | to 7b | 8a | ult 8b | 9 | | 10 | |
| 1. Materials according to the AD 2000-Code | | | | | | | | | | | 10 | | | | |
| partic | cular material app e applicable code CuZr | raisal. With that the | ctive 2014/68/EU is bou manufacturing reliabil D must be observed fo DIN EN 12420 DIN EN 12165 | ity for equiv | alent material grad | des ac | cording | g to oth | er stai | ndards | s (e.g. | AD 2000-Merki W 6/2 | E) is p | proved. The red | quirements and limits |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Rema | +AT +AR +M +N | solution annealedas rolledthermo mechanicalnormalized or norma | +QT = que +S = soft | | | | <u> </u> | l | 1 | a = | | for the use in pre rective 2014/68/E | essure equipment U neccessary | | |

Annex to Certificate No.: 01 202 926/Q-02 0046



| Scope Directive 2014/68/EU Annex I §4.3 | | | U | ⊠ EN 764-4 | | | | | | | AD 2000- Merkblatt W0 | | | FPC, Regulation (EU) No. 305/2011(System 2+) | | | |
|--|--|----------------------------------|--|--|-----------------------------------|---|------------|-----------|-------------|---------|--------------------------|---------------|----------------------------|--|---------|----------|------------------------------------|
| | | | Manufactur | er | | Work | | | | | | Nationality | | Date | Pag | ge No | |
| Com | pany Nar | me: Otto | Fuchs Dülken Gm | bH & Co. KG | | Viersen-Dülken | | | | | | German | | 10.05.2022 | | 3 | TÜV Rheinland Industrie Service |
| Location: Heiligenstr. 70, 41751 Viersen-Dülken | | | | | | | | | | | | | | Rev.: 13 | of : | 5 | GmbH |
| Cur - | Materials-term fur Materials-No. - | | | Material Specification | Article Type of Pro | | T | | nsions | | Weight max | | Technical Specification | | Remarks | | |
| | | | | | | | | | ick- ess | Q |) | | | Requirement | S | 3 136750 | |
| | | | | | | | | fro | nm Up | from | m Up | 1=t / 2=kg | | Technical Regulations | 3 | | Sustrial Ser |
| | | | | | | | | m | to | | to | Ť | ult | | | | |
| 1 | | | 2 | 3 nal and internation | 4 | 5 | | 6a | 6b | 7a | 7b | | | | | | 10 |
| partic | cular mate | erial appra ole code r CuZ | aisal. With that the espectively the PEI | 2014/68/EU is bound manufacturing reliabil must be observed fo DIN EN 12163 | ity for equiver the use of | /alent materi | al grad | les ac | cording | to othe | er stan | | | | | | |
| | | (CW5 | 509L) | DIN EN 12164 DIN EN 12167 | R340 H070 | | | | | | | | | | | | |
| 08 | | CuZ (CW | | DIN EN 12168 DIN EN 12449 | M R340 R360 H070 H075 | Pipe/Tul | be | 2 | 30 | 14 | 170 | | | | а | | |
| 09 | 09 CuZn40 (CW509L) | | - | DIN EN 12420 DIN EN 12165 | М | Forging Wrought unwroug forging st | and tht | and ht | | | | | | | | а | |
| 10 | | CuZn3 (CW6 | | DIN EN 12164 DIN EN 12167 | M H090 | Bars | | 6 | 160 | 10 | 160 | | | | а | | |
| Remarks +AT = solution annealed +AR = as rolled +AR = as rolled +AR = as rolled +AR = thermo mechanical treated +BR = normalized and tempered +BR = solution annealed +CT = quenched and tempered +CR | | | | | | | | | | | | | | | | | |



| Scope Directive 2014/68/EU Annex I §4.3 | | | | | ⊠ EN 764-4 | | | | | | | AD 2000- lerkblatt W0 | FPC, Regulation (EU) No. 305/2011(System 2+) | | |
|---|-------------------------------------|--|---|-----------------------------|--|-------------------|------------------|---------------------------------|----------|------|-------------|--------------------------|--|---------------|-------------------|
| | | Manufactur | er | | Work | | | | | | nality | Date | Pa | age No | |
| Compa | any Name: Otto | Fuchs Dülken Gm | bH & Co. KG | | Viersen-Dülken | | | | | | nan | 16.06.2021 | | 4 | TÜV Rheinland |
| | | | | | | | | | | | | | | | Industrie Service |
| Location | on: Heil | | | | | | _ | | Rev.: 13 | of: | 5 | GmbH | | | |
| Cur | | als-term ials-No. | Material Specification | Delivery Cond. | Article Dimensions Type of Product | | | Weight Technic max Specifica | | | ıs | | Remarks | | |
| | | | | | | | Thick- Ø ness | | | | Requirement | ts | (-) | | |
| | | | | | | n | mm mm | | | | =t / | Technical | | | Strial Ser |
| | | | | | | fro | Up | from | Up | 2=kg | | Regulations | 5 | | |
| | | | | | | m | to | | to | | ult | | | | |
| 1 | | 2 | 3 nal and internation | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | | | 10 |
| particu of the a | lar material app applicable code | raisal. With that the respectively the PEI | R 2014/68/EU is bound manufacturing reliabil D must be observed for | lity for equiver the use of | valent material grac material grades lis | des ac sted in | cording colum | to othe n 2 to 4. | er stan | | | | E) is pr | oved. The red | |
| 11 | | n39Pb3 614N) | DIN EN 12168 DIN EN 12449 | M R360 H085 H090 | Pipe/Tube | 2 | 40 | 14 | 170 | | | | а | | |
| 12 | | n39Pb3 614N) | DIN EN 12420 DIN EN 12165 | M H080 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | | а | | |
| 13 | | n40Pb2 (617N) | DIN EN 12164 DIN EN 12167 | M H090 | Bars | 6 | 160 | 10 | 160 | | | | а | 1: | |
| 14 | | n40Pb2 617N) | DIN EN 12168 DIN EN 12449 | M R360 H085 H090 | Pipe/Tube | 2 | 40 | 14 | 170 | | | | а | | |
| Remark | Remarks +AT = solution annealed | | | | | | | | | | | | | | |



| | Scope ording to | | ΕN | N 764- | 4 | | | | AD 2000- lerkblatt W0 | FPC, Regulation (EU) No. 305/2011(System 2+) | | | | | |
|----------|------------------------|--|---|---------------------------|---|----------------|--|------|--------------------------|--|-------------|-----------------------------|---|--------|--|
| | | Manufactu | rer | | Work | | | | | | nality | Date | Р | age No | |
| Compa | iny Name: Otto | o Fuchs Dülken Gn | nbH & Co. KG | | Viersen-Dülken | | | | | | nan | 16.06.2021 | 5 | | TÜV Rheinland Industrie Service |
| Locatio | n: Hei | | | | | | | | Rev.: 13 | of: | 5 | GmbH | | | |
| Cur - | | Materials-term Material Delivery Materials-No. Specification Cond. | | Delivery Cond. | Article Dimensions Type of Product | | | | | | ight nax | Technical Specifications | | | Remarks Remarks |
| | | | | | | | hick- | Q | Ø | | | Requirements | | | 136759 1 301 Striat Ser |
| | | | | | | | iess mm | m | m | 1=t / | | Technical | | | onal 30 |
| | | | | | | 4 | l la | ļ | | 2=kg | | Regulations | | | |
| | | | | | | fro m | Up to | from | Up to | ↓ | res ult | | | | |
| 1 | | 2 | 3 nal and internati | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | | | 10 |
| | pplicable code CuZr | | manufacturing reliabi D must be observed for DIN EN 12420 DIN EN 12165 | | | | | | | | | | 8 | | |
| 16 | | n31Si3P /724R) | DIN EN 12163 DIN EN 12164 DIN EN 12167 | M R500 H130 | Bars | 6 | 160 | 10 | 160 | | | | a | a | |
| 17 | | n21Si3P /724R) | DIN EN 12420 DIN EN 12165 | M H120 H130 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | | a | a | |
| 18 | | n21Si3P //724R) | DIN EN 12168 DIN EN 12449 | M R500 H110 H130 | Pipe/Tube | 2 | 40 | 14 | 170 | | | | a | | |
| Results | | = as rolled = thermo mechai | | | +QT = qu +S = soi | ench ft ann | zed and ed and nealed elieved | | | | | a = | | | in pressure equipment /68/EU neccessary |