

| Scope according to | | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3 | <input checked="" type="checkbox"/> EN 764-4 | <input checked="" type="checkbox"/> AD 2000-Merkblatt W0 | <input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+) | | | | | | | |
|---|---------------------------------|---|--|--|---|---|------------|-----------|--------------------------------------|---|---|--|
| Manufacturer | | | | Work | | Nationality | Date | Page No.. | | | | |
| Company Name: Otto Fuchs Dülken GmbH & Co. KG | | | | Viersen-Dülken | | German | 10.05.2022 | 1 | TÜV Rheinland Industrie Service GmbH | | | |
| Location: Heiligenstr. 70, 41751 Viersen-Dülken | | | | | | | Rev.: 13 | of : 5 | | | | |
| Cur | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max | | Technical Specifications Requirements Technical Regulations | Remarks |
| | | | | | Thick-ness mm | Ø mm | | | | 1=t / 2=kg | | |
| | | | | | from m | Up to | from | Up to | ↓ | | | |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | 10 |
| 1. Materials according to the AD 2000-Code | | | | | | | | | | | | |
| The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4. | | | | | | | | | | | | |
| 01 | CuZn40 (CW509L) | DIN EN 12163 DIN EN 12167 | R360 | Bars | 6 | 160 | 10 | 160 | | | AD 2000-Merkblatt W 6/2 | If the dimension range is outside the approved standard, a PMA is requested. |
| 02 | CuZn40 (CW509L) | DIN EN 12420 DIN EN 12165 | H070 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | AD 2000-Merkblatt W 6/2 | |
| 03 | CuZn39Pb3 (CW614N) | DIN EN 12164 DIN EN 12167 | R360 | Bars | 6 | 160 | 10 | 160 | | | AD 2000-Merkblatt W 6/2 | If the dimension range is outside the approved standard, a PMA is requested. |
| 04 | CuZn39Pb3 (CW614N) | DIN EN 12420 DIN EN 12165 | H070 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | AD 2000-Merkblatt W 6/2 | |
| 05 | CuZn40Pb2 (CW617N) | DIN EN 12164 DIN EN 12167 | R360 | Bars | 6 | 160 | 10 | 160 | | | AD 2000-Merkblatt W 6/2 | If the dimension range is outside the approved standard, a PMA is requested. |
| Remarks | | +AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed | | | | +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved | | | | a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary | | |



| Scope according to | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3 | <input checked="" type="checkbox"/> EN 764-4 | <input checked="" type="checkbox"/> AD 2000-Merkblatt W0 | <input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+) | | | | | | | | |
|---|---|--|--|---|---------------|-----------|---|-------|--|---|-------------------------|----|
| Manufacturer | | | Work | Nationality | Date | Page No.. | | | | | | |
| Company Name: Otto Fuchs Dülken GmbH & Co. KG | | | Viersen-Dülken | German | 10.05.2022 | 2 | TÜV Rheinland Industrie Service GmbH | | | | | |
| Location: Heiligenstr. 70, 41751 Viersen-Dülken | | | | | Rev.: 13 | of : 5 | | | | | | |
| Cur | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max 1=t / 2=kg ↓ result | Technical Specifications Requirements Technical Regulations | Remarks | |
| | | | | | Thick-ness mm | | Ø mm | | | | | |
| | | | | | from | Up to | from | Up to | | | | |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | 10 |
| 1. Materials according to the AD 2000-Code | | | | | | | | | | | | |
| The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4. | | | | | | | | | | | | |
| 06 | CuZn40Pb2 (CW617N) | DIN EN 12420 DIN EN 12165 | H070 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | AD 2000-Merkblatt W 6/2 | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Remarks | +AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed | | | +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved | | | a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary | | | | | |



| Scope according to | | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3 | <input checked="" type="checkbox"/> EN 764-4 | <input checked="" type="checkbox"/> AD 2000-Merkblatt W0 | <input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+) | | | | | | | |
|---|---|---|---|--|---|------------|-----------|--------------------------------------|------------|------------|---|---------|
| Manufacturer | | | Work | | Nationality | Date | Page No.. | | | | | |
| Company Name: Otto Fuchs Dülken GmbH & Co. KG | | | Viersen-Dülken | | German | 10.05.2022 | 3 | TÜV Rheinland Industrie Service GmbH | | | | |
| Location: Heiligenstr. 70, 41751 Viersen-Dülken | | | | | | Rev.: 13 | of : 5 | | | | | |
| Cur | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max | | Technical Specifications Requirements Technical Regulations | Remarks |
| | | | | | Thick-ness mm | Ø mm | | | | 1=t / 2=kg | | |
| | | | | | fro m | Up to | from | Up to | ↓ | | | |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | 10 |
| 2. Materials according to national and international standards (e. g. ASTM, ASME, IBR etc.) | | | | | | | | | | | | |
| The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4. | | | | | | | | | | | | |
| 07 | CuZn40 (CW509L) | DIN EN 12163 DIN EN 12164 DIN EN 12167 | M R340 H070 | Bars | 6 | 160 | 10 | 160 | | | | a |
| 08 | CuZn40 (CW509L) | DIN EN 12168 DIN EN 12449 | M R340 R360 H070 H075 | Pipe/Tube | 2 | 30 | 14 | 170 | | | | a |
| 09 | CuZn40 (CW509L) | DIN EN 12420 DIN EN 12165 | M | Forgings Wrought and unwrought forging stock | - | 120 | | | | | | a |
| 10 | CuZn39Pb3 (CW614N) | DIN EN 12164 DIN EN 12167 | M H090 | Bars | 6 | 160 | 10 | 160 | | | | a |
| Remarks | +AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed | | +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved | | a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary | | | | | | | |



| Scope according to | | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3 | <input checked="" type="checkbox"/> EN 764-4 | <input checked="" type="checkbox"/> AD 2000-Merkblatt W0 | <input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+) | | | | | | | | |
|---|---------------------------------|---|--|--|---|------------|-----------|---|------------|----|---|---------|---------|
| Manufacturer | | | | Work | Nationality | Date | Page No.. | | | | | | |
| Company Name: Otto Fuchs Dülken GmbH & Co. KG | | | | Viersen-Dülken | German | 16.06.2021 | 4 | TÜV Rheinland Industrie Service GmbH | | | | | |
| Location: Heiligenstr. 70, 41751 Viersen-Dülken | | | | | | Rev.: 13 | of : 5 | | | | | | |
| Cur | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max | | Technical Specifications Requirements Technical Regulations | Remarks | |
| | | | | | Thick-ness mm | | Ø mm | | 1=t / 2=kg | | | | res ult |
| | | | | | fro m | Up to | fro m | Up to | ↓ | | | | |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | 10 | |
| 2. Materials according to national and international standards (e. g. ASTM, ASME, IBR etc.) | | | | | | | | | | | | | |
| The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4. | | | | | | | | | | | | | |
| 11 | CuZn39Pb3 (CW614N) | DIN EN 12168 DIN EN 12449 | M R360 H085 H090 | Pipe/Tube | 2 | 40 | 14 | 170 | | | | a | |
| 12 | CuZn39Pb3 (CW614N) | DIN EN 12420 DIN EN 12165 | M H080 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | | a | |
| 13 | CuZn40Pb2 (CW617N) | DIN EN 12164 DIN EN 12167 | M H090 | Bars | 6 | 160 | 10 | 160 | | | | a | |
| 14 | CuZn40Pb2 (CW617N) | DIN EN 12168 DIN EN 12449 | M R360 H085 H090 | Pipe/Tube | 2 | 40 | 14 | 170 | | | | a | |
| Remarks | | +AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed | | | +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved | | | a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary | | | | | |



| Scope according to | | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3 | <input checked="" type="checkbox"/> EN 764-4 | <input checked="" type="checkbox"/> AD 2000-Merkblatt W0 | <input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+) | | | | | | | |
|---|---------------------------------|---|--|--|---|------------|-----------|---|--|---|---------|----|
| Manufacturer | | | | Work | Nationality | Date | Page No.. | TÜV Rheinland Industrie Service GmbH | | | | |
| Company Name: Otto Fuchs Dülken GmbH & Co. KG | | | | Viersen-Dülken | German | 16.06.2021 | 5 | | | | | |
| Location: Heiligenstr. 70, 41751 Viersen-Dülken | | | | | | Rev.: 13 | of : 5 | | | | | |
| Cur | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max 1=t / 2=kg ↓ res ult | Technical Specifications Requirements Technical Regulations | Remarks | |
| | | | | | Thick-ness mm | | Ø mm | | | | | |
| | | | | | fro m | Up to | from | Up to | | | | |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | 10 |
| 2. Materials according to national and international standards (e. g. ASTM, ASME, IBR etc.) | | | | | | | | | | | | |
| The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4. | | | | | | | | | | | | |
| 15 | CuZn40Pb2 (CW617N) | DIN EN 12420 DIN EN 12165 | M H080 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | | a |
| 16 | CuZn31Si3P (CW724R) | DIN EN 12163 DIN EN 12164 DIN EN 12167 | M R500 H130 | Bars | 6 | 160 | 10 | 160 | | | | a |
| 17 | CuZn21Si3P (CW724R) | DIN EN 12420 DIN EN 12165 | M H120 H130 | Forgings Wrought and unwrought forging stock | - | 120 | | | | | | a |
| 18 | CuZn21Si3P (CW724R) | DIN EN 12168 DIN EN 12449 | M R500 H110 H130 | Pipe/Tube | 2 | 40 | 14 | 170 | | | | a |
| Results | | +AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed | | | +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved | | | a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary | | | | |

