






| Scope according to | <input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3 | <input 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: Société CEREC Location: 2, rue René FOURCHET F-59245 RECQUIGNIES | | RECQSUIGNIES | | F | 04/02/21 | 1 | TÜV Rheinland Industrie Service | | | | | |
| | | | | | Rev.:2 | of : 6 | GmbH | | | | | |
| 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 | | | | | |
| | | | | | from | Up to | from | Up to | | | | |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | 10 |
| 2. Materials according to the AD 2000-Code | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | |
| 1 | S235JR+N, S235J2+N, S275JR+N, S275J2+N, S355J2+N, S355K2+N | EN 10025 AD 2000-W1 | +N | Seamless, pressed parts | | 130 | | 4500 | | | AD2000-HP8/1 AD2000-HP7/1§2 | |
| 2 | X2CrNi18-7, X2CrNi18-9, X2CrNi19-11, X2CrNi18-10, X5CrNi18-10, X5CrNi19-9, X6CrNi18-10, X6CrNiTi18-10, X2CrNiMo17-12-2, X2CrNiMoN17-11-2, X5CrNiMo17-12-2, X6CrNiMoTi17-12-2, X2CrNiMo17-12-3, X2CrNiMo18-14-3, | EN 10028/7 AD2000-W2 AD2000-W10 | +AT | Seamless, pressed parts | | 80 | | 4500 | | | AD2000-HP8/1 AD2000-HP7/1§3 |  |
| 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 | | | | |

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|---|--|---|-----------------------------------|--|---|----------|-----------|--|------------------------------------|---|--------------------------------|---|
| Manufacturer | | | Work | | Nationality | Date | Page No.. | | | | | |
| Company Name: Société CEREC Location: 2, rue René FOURCHET F-59245 RECQUIGNIES | | | RECQUIGNIES | | F | 04/02/21 | 2 | TÜV Rheinland Industrie Service | | | | |
| | | | | | | Rev.:2 | of : 6 | GmbH | | | | |
| Cur | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max 1=t / 2=kg | Technical Specifications Requirements Technical Regulations | Remarks | |
| | | | | | Thick-ness mm | | Ø mm | | | | | |
| | | | | | from | Up to | fro m | Up to | | | | |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 1 | 2 | 3 | 4 |
| 2. Materials according to the AD 2000-Code | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | |
| 3 | X2CrNi18-7, X2CrNi18-9, X2CrNi19-11, X2CrNi18-10, X5CrNi18-10, X5CrNi19-9, X6CrNi18-10, X6CrNiTi18-10, X2CrNiMo17-12-2, X2CrNiMoN17-11-2, X5CrNiMo17-12-2, X6CrNiMoTi17-12-2, X2CrNiMo17-12-3, X2CrNiMo18-14-3, | EN 10028/7 AD2000/W2 | +AT | Seamless, pressed parts | | 15 | | 3000 | | | AD2000-HP8/1 AD2000-HP7/1§3 |  |
| 4 | 13 Cr Mo 4.5, 10 Cr Mo 9.10 | EN 10028/2 AD-W1 | +NT | Seamless, pressed parts | | 100 | | 4500 | | | AD2000-HP8/1 AD2000-HP7/1§2 | |
| Results | | +AT = solution annealed | | | +NT = normalized and tempered | | | a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary | | | | |
| | | +AR = as rolled | | | +QT = quenched and tempered | | | | | | | |
| | | +M = thermo mechanical treated | | | +S = soft annealed | | | | | | | |
| | | +N = normalized or normalizing formed | | | +SR = stress relieved | | | | | | | |

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|---|---|---|--|---|---|------------------|------------------------------------|--|---------------------------------|---|---------------------------------|---|
| Manufacturer | | Work | | Nationality | Date | Page No.. | | | | | | |
| Company Name: Société CEREC-ANTONIUS Location: 2, rue René FOURCHET F-59245 RECQUIGNIES | | | | | 04/02/21 | 3 | TÜV Rheinland Industrie Service | | | | | |
| | | | | | Rev.:2 | of : 6 | GmbH | | | | | |
| Cur - | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max 1=t / 2=kg | 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 | 1 | 2 | 3 | 4 |
| 2. Materials according to the AD 2000-Code | | | | | | | | | | | | |
| 5 | 15 NiCuMoNb 5-6-4 | EN 10028-2 AD2000-W1 VD TUV 377/1 | +NT | Seamless, pressed parts | | 100 | | 4500 | | | AD2000-HP 8/1 AD2000-HP7/1§2 |  For pre material acc. VdTÜV, manufacturer has to be listed in the VdTÜV |
| 6 | P235S, P265S, P275SL | EN 10207 AD2000-W1 | +N | Seamless, pressed parts | | 60 | | 2000 | | | AD2000-HP 8/1 AD2000-HP7/1§2 | |
| 7 | P235GH, P265GH, P295GH, P355GH, 16Mo3 | EN 10028-2 AD2000-W1 | +N | Seamless, pressed parts | | 130 | | 4500 | | | AD2000-HP 8/1 AD2000-HP7/1§2 | |
| 8 | 13CrMo4.5, 10CrMo9.10, 11CrMo9.10 | EN 10028-2 AD2000-W1 | +QT | Seamless, pressed parts | 100 | | | 4500 | | | AD2000-HP 8/1 AD2000-HP7/1§2 | |
| 9 | 12CrMo9.10 | EN 10028-2 AD2000-W1 VD TUV 404/1 | +QT | Seamless, pressed parts | 100 | | | 4500 | | | AD2000-HP 8/1 AD2000-HP7/1§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 | | | | |

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|---|--|---|-----------------------------------|---|---|--|-----------|------------------------------------|------------------------------------|---|---------------------------------|--|
| Manufacturer | | | Work | | Nationality | Date | Page No.. | | | | | |
| Company Name: Société CEREC- Location: 2, rue René FOURCHET F-59245 RECQUIGNIES | | | RECQUIGNIES | | F | 04/02/21 | 4 | TÜV Rheinland Industrie Service | | | | |
| | | | | | | Rev.:2 | of : 6 | GmbH | | | | |
| Cur | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max 1=t / 2=kg | Technical Specifications Requirements Technical Regulations | Remarks | |
| | | | | | Thick-ness mm | | Ø mm | | | | | |
| | | | | | from | Up to | fro m | Up to | | | | |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 1 | 2 | 3 | 4 |
| 2. Materials according to the AD 2000-Code | | | | | | | | | | | | |
| 10 | P275N, P275NH, P275NL1, P275NL2, P355N, P355NH, P355NL1, P355NL2 | EN 10028-3 AD200-W1 VdTÜV 352/1 & 354/2 | +N | Seamless, pressed parts | | 100 | | 4500 | | | AD2000-HP 8/1 AD2000-HP7/1§2 |  For pre material acc. VdTÜV, manufacturer has to be listed in the VdTÜV |
| 11 | 20MnMoNi 5.5, 20MnMoNi 4.5 | EN 10028/2 AD2000-W1 VdTÜV 401/1 VdTÜV 440/1 | +AR/AT +QT | Seamless, pressed parts | | 120 | | 4500 | | | AD2000-HP 8/1 AD2000-HP7/1§2 | |
| 12 | As Items 1, 6 | As Item 1, 6 | +N | Welded, Pressed parts | | 40 | | 6000 | | | AD2000-HP 8/1 AD2000-HP7/1§2 | |
| 13 | As Items 4, 7, 8 | As Items 4, 7, 8 | +N/+QT | Welded, Pressed parts | | 40 | | 6000 | | | AD2000-HP 8/1 AD2000-HP7/1§2 | |
| 14 | As Item 10 | As Item 10 | +N | Welded, Pressed parts | | 40 | | 6000 | | | AD2000-HP 8/1 AD2000-HP7/1§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 | | | | | | |

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|---|---|---|-----------------------------------|---|---|----------|--|------------------------------------|------------------------------------|---|---------------|---|
| Manufacturer | | | Work | | Nationality | Date | Page No.. | | | | | |
| Company Name: Société CEREC-ANTONIUS Location: 2, rue René FOURCHET F-59245 RECQUIGNIES | | | RECQUIGNIES | | F | 04/02/21 | 5 | TÜV Rheinland Industrie Service | | | | |
| | | | | | | Rev.:2 | of : 6 | GmbH | | | | |
| Cur | Materials-term Materials-No. | Material Specification | Delivery Cond. | Article Type of Product | Dimensions | | | | Weight max 1=t / 2=kg | 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 | 1 | 2 | 3 | 4 |
| 2. Materials according to the AD 2000-Code | | | | | | | | | | | | |
| 15 | P265GH, P235GH | EN 10028-2 AD2000-W1 | +AR | Seamless, Pressed parts | 4 | 8 | | 1300 | | | AD2000-HP 8/1 | |
|  | | | | | | | | | | | | |
| 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 | | | | | |

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| Manufacturer | | | Work | Nationality | Date | Page No.. | | | | | | |
| Company Name: Société CEREC-ANTONIUS Location: 2, rue René FOURCHET F-59245 REQUIGNIES | | | RECQUIGNIES | F | 04/02/21 Rev.:2 | 6 of : 6 | TÜV Rheinland Industrie Service GmbH | | | | | |
| Cu r- | 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 | from 6a | Up to 6b | | | | from 7a |
| 1 | 2 | 3 | 4 | 5 | 6a | 6b | 7a | 7b | 8a | 8b | 9 | 10 |
| 3. Materials according to 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. | | | | | | | | | | | | |
| 16 | P440 NJ4, P460 NJ2 | NF A 36-215 | +N/+SR | Welded, Pressed parts | | 18 | | 4500 | | | AD2000-HP8/1 | Einzelgutachten 3.2 certificate |
| Results | +AT = solution annealed +A = as rolled R +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 | | | | | |