

The SDS for Ball Clasps Stainless Steel can be found at 090-034

PRODUCT-DATA SHEET

- High-grade steel products –

Please note that our stainless steel products should not be exposed to MRT (magnetic resonance tomography)

| No. | Product name | Alloy |
|-----|--|--|
| 1a) | <u>Prothetic clasps and bars</u> - O, OK, J, JM, T, TK, N, NK, B, Jaw Fracture Splints, Poly-J | Chromium-nickel steel, Material No. 1.4301, Alloy components: C ≤ 0,07 % Si ≤ 1,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,015 % Cr = 17,50 - 19,50 % Mo = --- Ni = 8,00 - 10,50 % V = --- Others = N ≤ 0,11 % Fe = rest |
| 1b) | <u>Orthodontic clasps and bars:</u> Scheu-Anchor STEADY-bar | Chromium-nickel steel, Material No. 1.4301, Alloy components: C ≤ 0,07 % Si ≤ 1,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,015 % Cr = 17,50 - 19,50 % Mo = --- Ni = 8,00 - 10,50 % V = --- Others = N ≤ 0,11 % Fe = rest |
| 1c) | Adamik-Anchor | a) Chromium-nickel steel, Material No. 1.4305, Alloy components: C ≤ 0,10 % Si ≤ 1,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,15 – 0,35 % Cr = 17,00 - 19,00 % Mo = --- Ni = 8,00 - 10,00 % V = --- Others = Cu ≤ 1,00 %; N ≤ 0,11 % Fe = rest |

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|--------|--|--|---|---|---------------|----|---|--------|----|---|--------|---|---|---------|---|---|---------|----|---|----------------|----|---|--------|----|---|--------------|---|---|-----|--------|---|------------|----|---|------|---|---|--------|----|---|--------|----|---|-----------------|---|---|--------|---|---|--------|----|---|-----------------|----|---|---------------|----|---|--------|---|---|--------|--------|---|-----------------|----|---|------|
| 2) | <p><u>Orthodontic clasps and wires:</u> Arrow clasps, Triangle clasp, ADAMS- and VOSS clasps, A-parts, U-Bar, CHROMIUM-Wires</p> <p>Arrow- and Triangle clasps, Quad Helix Coffin-springs, MENZANIUM-Wires</p> | <p>a) Chromium-nickel-steel, Material No. 1.4310, Alloy components:</p> <table> <tr><td>C</td><td>=</td><td>0,05 – 0,15 %</td></tr> <tr><td>Si</td><td>≤</td><td>2,00 %</td></tr> <tr><td>Mn</td><td>≤</td><td>2,00 %</td></tr> <tr><td>P</td><td>≤</td><td>0,045 %</td></tr> <tr><td>S</td><td>≤</td><td>0,015 %</td></tr> <tr><td>Cr</td><td>=</td><td>16,00 -19,00 %</td></tr> <tr><td>Mo</td><td>≤</td><td>0,80 %</td></tr> <tr><td>Ni</td><td>=</td><td>6,00 - 9,5 %</td></tr> <tr><td>V</td><td>=</td><td>---</td></tr> <tr><td>Others</td><td>=</td><td>N ≤ 0,11 %</td></tr> <tr><td>Fe</td><td>=</td><td>rest</td></tr> </table> <p>b) partially already available in the nickel-free alloy MENZANIUM, material No. 1.4456 (Please pay attention to the label), alloy components:</p> <table> <tr><td>C</td><td>≤</td><td>0,10 %</td></tr> <tr><td>Si</td><td>≤</td><td>1,00 %</td></tr> <tr><td>Mn</td><td>=</td><td>16,00 - 20,00 %</td></tr> <tr><td>P</td><td>≤</td><td>0,05 %</td></tr> <tr><td>S</td><td>≤</td><td>0,05 %</td></tr> <tr><td>Cr</td><td>=</td><td>16,00 - 20,00 %</td></tr> <tr><td>Mo</td><td>=</td><td>1,80 – 2,50 %</td></tr> <tr><td>Ni</td><td>≤</td><td>0,20 %</td></tr> <tr><td>V</td><td>≤</td><td>0,20 %</td></tr> <tr><td>Others</td><td>=</td><td>N 0,70 – 1,00 %</td></tr> <tr><td>Fe</td><td>=</td><td>rest</td></tr> </table> | C | = | 0,05 – 0,15 % | Si | ≤ | 2,00 % | Mn | ≤ | 2,00 % | P | ≤ | 0,045 % | S | ≤ | 0,015 % | Cr | = | 16,00 -19,00 % | Mo | ≤ | 0,80 % | Ni | = | 6,00 - 9,5 % | V | = | --- | Others | = | N ≤ 0,11 % | Fe | = | rest | C | ≤ | 0,10 % | Si | ≤ | 1,00 % | Mn | = | 16,00 - 20,00 % | P | ≤ | 0,05 % | S | ≤ | 0,05 % | Cr | = | 16,00 - 20,00 % | Mo | = | 1,80 – 2,50 % | Ni | ≤ | 0,20 % | V | ≤ | 0,20 % | Others | = | N 0,70 – 1,00 % | Fe | = | rest |
| C | = | 0,05 – 0,15 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Si | ≤ | 2,00 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mn | ≤ | 2,00 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | ≤ | 0,045 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | ≤ | 0,015 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cr | = | 16,00 -19,00 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mo | ≤ | 0,80 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ni | = | 6,00 - 9,5 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V | = | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Others | = | N ≤ 0,11 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fe | = | rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | ≤ | 0,10 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Si | ≤ | 1,00 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mn | = | 16,00 - 20,00 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | ≤ | 0,05 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | ≤ | 0,05 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cr | = | 16,00 - 20,00 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mo | = | 1,80 – 2,50 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ni | ≤ | 0,20 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V | ≤ | 0,20 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Others | = | N 0,70 – 1,00 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fe | = | rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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- High-grade steel products –

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| No. | Product Name | Alloy |
|-----|--|---|
| 3) | <u>Prothetic Bars</u> Profi-Bar Lingualbar | a) Material No. 1.4303 Alloy components: C ≤ 0,06 % Si ≤ 1,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,015 % Cr = 17,00 - 19,00 % Mo = --- Ni = 11,00 - 13,00 % V = --- Others = N ≤ 0,11% Fe = rest b) Material No. 1.4310 Alloy components: C = 0,05 – 0,15 % Si ≤ 2,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,015 % Cr = 16,00 -19,00 % Mo ≤ 0,80 % Ni = 6,00 - 9,5 % V = --- Others = N ≤ 0,11 % Fe = rest |
| 4) | Face-Bows | a) Material No. 1.4310 (Inner and outer bow): C = 0,05 – 0,15 % Si ≤ 2,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,015 % Cr = 16,00 -19,00 % Mo ≤ 0,80 % Ni = 6,00 - 9,5 % V = --- Others = N ≤ 0,11 % Fe = rest b) Colour coating Polyesterlaque |

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| | | |
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| 5) | Distance Rings | Chromium-nickel steel, Material No. 1.4305, Alloy components: C ≤ 0,10 % Si ≤ 1,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,15 – 0,35 % Cr = 17,00 -19,00 % Mo = --- Ni = 8,00 -10,00 % V = --- Others = Cu ≤ 1,00 %; N ≤ 0,11 % Fe = rest |
| 6) | HERNER Guiding Telescopes, HERBST hinges, Hinge System 44 | Chromium-nickel steel, Material No. 1.4305, Alloy components: C ≤ 0,10 % Si ≤ 1,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,15 – 0,35 % Cr = 17,00 -19,00 % Mo = --- Ni = 8,00 -10,00 % V = --- Others = Cu ≤ 1,00 %; N ≤ 0,11 % Fe = rest and Chromium-nickel steel, Material No. 1.4301, Alloy components: C ≤ 0,07 % Si ≤ 1,00 % Mn ≤ 2,00 % P ≤ 0,045 % S ≤ 0,015 % Cr = 17,50 - 19,50 % Mo = --- Ni = 8,00 - 10,50 % V = --- Others = N ≤ 0,11 % Fe = rest |

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|----|----------------------------------|--|
| 7) | Activator-Tubes acc. to Teuscher | Material QC-985.174 similar 1.4435 Alloy Components: Cr 16,2 % Ni 4,5 % Cu 3,6 % Ta + Nb 0,2 % Si 0,5 % max. Mn 0,5 % max. C 0,03 % max. Fe rest |
|----|----------------------------------|--|