

INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

ISO 9001 and ISO/TS 16949 approved,
certified by Lloyd's Register LRQA

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|---|---|--|--------------------|----------------------------------|----------------|--------------|--------------|--|--|--------|--------|--------|--|--|--------------------|----------------------|------------------|--------------------|--|--------|--------|---------|-------|--|--------------|--------------|--|--|--|--------|--------|--|--|--|--------------------|-----------------------------|--|--|--|--|-------|------------|-------------|-------------|------------|------------|------|------|------|-------|-------|-------------|-------------|-------------|-------------|------------|--|------|------|------|-------|-------|--|-----------|--|--|--|--|--|-------|--|--|--|--|
| Delivery address OVAKO METALS OY AB TUOTEKATU 3 FI-33840 TAMMERFORS Intended for OVAKO METALS OY AB Specification OVAKO 280 FULFIL ALL REQUIREMENTS OF EN1 0294 E470 & EN10267. Product HOT ROLLED TUBES. | Date 180704 Our order 1893573 Your order 008420 Ovako grade 280T | Cert number C6258821 Pos 1 Grade 19MNV56 / 280T | Ver 1 | Page 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Check of radioactivity has been performed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extent of delivery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">Type No</td> <td style="width:20%;">OD mm</td> <td style="width:20%;">ID mm</td> <td style="width:20%;"></td> <td style="width:20%;"></td> </tr> <tr> <td>135110</td> <td>136,90</td> <td>106,60</td> <td></td> <td></td> </tr> <tr> <td>Quantity kg</td> <td>Net weight Kg</td> <td>MO number</td> <td colspan="2">Heat Number</td> </tr> <tr> <td>1957,0</td> <td>1957,0</td> <td>2287765</td> <td colspan="2">P1893</td> </tr> <tr> <td>OD mm</td> <td>ID mm</td> <td colspan="3"></td> </tr> <tr> <td>136,90</td> <td>106,60</td> <td colspan="3"></td> </tr> </table> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">Heat number</td> <td colspan="5">Chemical composition</td> </tr> <tr> <td rowspan="3">P1893</td> <td>C %</td> <td>Si %</td> <td>Mn %</td> <td>P %</td> <td>S %</td> </tr> <tr> <td>0,17</td> <td>0,31</td> <td>1,48</td> <td>0,006</td> <td>0,024</td> </tr> <tr> <td>Cr %</td> <td>Ni %</td> <td>Mo %</td> <td>Cu %</td> <td>V %</td> </tr> <tr> <td></td> <td>0,25</td> <td>0,08</td> <td>0,06</td> <td>0,102</td> <td>0,106</td> </tr> <tr> <td></td> <td>CE</td> <td colspan="4"></td> </tr> <tr> <td></td> <td>0,510</td> <td colspan="4"></td> </tr> </table> | | | | | Type No | OD mm | ID mm | | | 135110 | 136,90 | 106,60 | | | Quantity kg | Net weight Kg | MO number | Heat Number | | 1957,0 | 1957,0 | 2287765 | P1893 | | OD mm | ID mm | | | | 136,90 | 106,60 | | | | Heat number | Chemical composition | | | | | P1893 | C % | Si % | Mn % | P % | S % | 0,17 | 0,31 | 1,48 | 0,006 | 0,024 | Cr % | Ni % | Mo % | Cu % | V % | | 0,25 | 0,08 | 0,06 | 0,102 | 0,106 | | CE | | | | | | 0,510 | | | | |
| Type No | OD mm | ID mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 135110 | 136,90 | 106,60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quantity kg | Net weight Kg | MO number | Heat Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1957,0 | 1957,0 | 2287765 | P1893 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OD mm | ID mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 136,90 | 106,60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heat number | Chemical composition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1893 | C % | Si % | Mn % | P % | S % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0,17 | 0,31 | 1,48 | 0,006 | 0,024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cr % | Ni % | Mo % | Cu % | V % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0,25 | 0,08 | 0,06 | 0,102 | 0,106 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0,510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed by computer | | The requirements stipulated are satisfied | | Issuer of certificate A000240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Continue...

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ISO 9001 and ISO/TS 16949 approved,
certified by Lloyd's Register LRQA

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|--------------------------------|--------|-------------|----------|-------------|---|-----|---|----------------------------------|---|
| Date | 180704 | Cert number | C6258821 | Heat number | P1893 | Ver | 1 | Page | 2 |
| MECHANICAL TEST RESULTS | | | | | | | | | |
| Sample | | | | | | | | | |
| | A5 % | ReH N/mm2 | Rm N/mm2 | Z % | | | | | |
| 10 | 20,7 | 537 | 752 | 61 | | | | | |
| HARDNESS HB | | | | | | | | | |
| Sample | | | | | | | | | |
| | HB | | | | | | | | |
| 10 | 245 | | | | | | | | |
| Printed by computer | | | | | The requirements stipulated are satisfied | | | Issuer of certificate A000240 | |