



MARIENHÜTTE

Product Data Sheet for
reinforcing steel in coils

B550B



| DIAMETER [mm] | 8 | 10 | 12 | 14 | 16 | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|----|----|----|----|-------------------|-----------|----------------------|-----------|---------------|--------|--------------------|------|-------------|--|----------------------|---------|-----------------------|---------|----------|--|--------------|---------|----------------|--|-------------|---------|
| DIMENSIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEMICAL COMPONENTS & WELDABILITY [%] | <p>$C \leq 0,24$ $S \leq 0,055$ $P \leq 0,055$ $N \leq 0,014$ $Cu \leq 0,85$ $C_{eq} \leq 0,52^a$</p> <p>By respecting the above mentioned chemical components the producer guarantees the weldability for each coil.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LABELLING | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CERTIFICATES | <p>Austria, Croatia, Slovenia, Hungary, Slovakia, Czech Republic: erhältlich auf Anfrage</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STANDARDS | <p>Production according to ÖNORM B4707 and EN 10080</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MECHANICAL-TECHNOLOGICAL PROPERTIES | <div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <p>Ductility class: A, B, C</p> </div> <div style="flex: 1; border: 1px solid black; padding: 5px;"> <table border="1"> <tbody> <tr> <td>Yield strength Re</td> <td>≥ 550 MPa</td> </tr> <tr> <td>Yield strength Remax</td> <td>≤ 715 MPa</td> </tr> <tr> <td>Ratio (Rm/Re)</td> <td>≥ 1,08</td> </tr> <tr> <td>Uniform strain Agt</td> <td>≥ 5%</td> </tr> <tr> <td>Rib area fR</td> <td></td> </tr> <tr> <td>Ø 8 mm ≤ d ≤ Ø 12 mm</td> <td>≥ 0,046</td> </tr> <tr> <td>Ø 14 mm ≤ d ≤ Ø 16 mm</td> <td>≥ 0,064</td> </tr> <tr> <td>Fatigue:</td> <td></td> </tr> <tr> <td>High tension</td> <td>300 MPa</td> </tr> <tr> <td>Working stroke</td> <td>2 σ_s für 2*10⁶</td> </tr> <tr> <td>Load change</td> <td>150 MPa</td> </tr> </tbody> </table> </div> </div> | | | | | Yield strength Re | ≥ 550 MPa | Yield strength Remax | ≤ 715 MPa | Ratio (Rm/Re) | ≥ 1,08 | Uniform strain Agt | ≥ 5% | Rib area fR | | Ø 8 mm ≤ d ≤ Ø 12 mm | ≥ 0,046 | Ø 14 mm ≤ d ≤ Ø 16 mm | ≥ 0,064 | Fatigue: | | High tension | 300 MPa | Working stroke | 2 σ _s für 2*10 ⁶ | Load change | 150 MPa |
| Yield strength Re | ≥ 550 MPa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yield strength Remax | ≤ 715 MPa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ratio (Rm/Re) | ≥ 1,08 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uniform strain Agt | ≥ 5% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rib area fR | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 8 mm ≤ d ≤ Ø 12 mm | ≥ 0,046 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ø 14 mm ≤ d ≤ Ø 16 mm | ≥ 0,064 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatigue: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High tension | 300 MPa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Working stroke | 2 σ _s für 2*10 ⁶ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Load change | 150 MPa | | | | | | | | | | | | | | | | | | | | | | | | | | |