



MARIENHÜTTE



Product Data sheet for reinforcing steel in coils

**B550B**

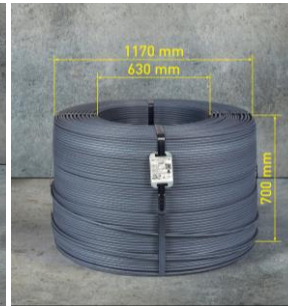


|                 |             |          |           |           |           |           |
|-----------------|-------------|----------|-----------|-----------|-----------|-----------|
| <b>Diameter</b> | <b>[mm]</b> | <b>8</b> | <b>10</b> | <b>12</b> | <b>14</b> | <b>16</b> |
|-----------------|-------------|----------|-----------|-----------|-----------|-----------|

### Dimension



**COIL**  
1,7t



**MEGA COIL**  
3t



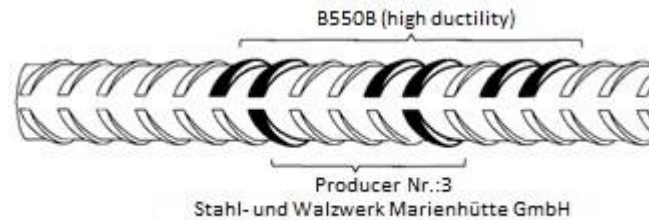
**GIGA COIL**  
5t

### Chemical Components & Weldability

|            |                 |                  |                  |                  |                  |                              |
|------------|-----------------|------------------|------------------|------------------|------------------|------------------------------|
| <b>[%]</b> | <b>C ≤ 0,24</b> | <b>S ≤ 0,055</b> | <b>P ≤ 0,055</b> | <b>N ≤ 0,014</b> | <b>Cu ≤ 0,85</b> | <b>C<sub>eq</sub> ≤ 0,52</b> |
|------------|-----------------|------------------|------------------|------------------|------------------|------------------------------|

By respecting the above mentioned chemical components the producer guarantees the weldability for each coil.

### Labelling



### Certificates

**Austria:** Nr.: Z-2.1.2-21-7647 (ÖNORM EN 10080 and ÖNORM B4707)

**Croatia:** Certifikat o stalnosti svojstava 1/05-ZGP-2097

**Slovenia:** STS-09/0030

**Hungary:** 20-CPR-15-(C-4/2008)

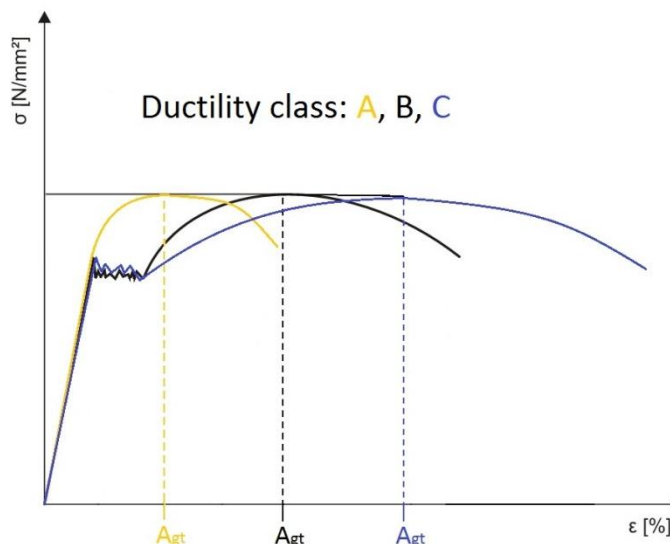
**Slovakia:** Certifikat SK04-ZSV-1948

**Czech Republic:** Certifikát výroby č. 204/C5/2014/070-036991

### Standards

Production according to ÖNORM B4707 and ÖNORM EN 10080

### Mechanical-technological properties



|   |  |
|---|--|
| Yield strength Re                       | ≥ 550 MPa                              |
| Yield strength R <sub>max</sub>         | ≤ 715 MPa                              |
| Ratio (R <sub>m</sub> /R <sub>e</sub> ) | ≥ 1,08                                 |
| Uniform strain A <sub>gt</sub>          | ≥ 5%                                   |
| Rib area f <sub>R</sub>                 |  |
| ∅ 8mm ≤ d ≤ ∅ 12mm                      | ≥ 0,046                                |
| ∅ 14mm ≤ d ≤ ∅ 16mm                     | ≥ 0,064                                |
| Fatigue:                                |  |
| High tension                            | 300 MPa                                |
| Working stroke                          | 2 σ <sub>a</sub> für 2*10 <sup>6</sup> |
| Load change                             | 150 MPa                                |