



BU Anchor

Prüfbescheinigungen  
**EN 10204**  
Inspection Documents

HILTI Aktiengesellschaft  
Feldkircherstrasse 100  
FL-9494 Schaan  
Fürstentum Liechtenstein

Dokument /  
Document

Nr: 10/26112012

**Prüfbescheinigung / Inspection Document**

Werkzeugnis - Test report 2.2   
Abnahmeprüfzeugnis - Inspection certificate 3.1

| Artikel-Nr.<br>Item-#<br>Code art. | Produktbezeichnung<br>Product designation<br>Référence produit | Auftrags-Nr.<br>Order-#<br>Votre commande | Charge / Los-Nr.<br>Batch-code<br>Commande No. | Menge<br>Quantity<br>Quantité |
|------------------------------------|--|---|--|-------------------------------|
| 2008139                            | Threaded rod AM30x1000<br>8.8 zinc plated                      |   |  |                               |

Bemerkungen:  
Remarks:  
Remarques:

Hiermit bestätigen wir, dass die oben angeführte Lieferung den Vereinbarungen bei der Bestellung entspricht.  
*We herewith certify, that the material described above complies with the terms of the order.*  
Nous certifions que la livraison est conform aux stipulations de la commande.

Issuer:

Name : Aniko Huebner-Borbely  
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City : 9494 Schaan  
Country : Fürstentum Liechtenstein

Verantwortliche Stelle  
Responsible Department  
Service responsible

Datum / Date: 26.11.2012





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# CERTIFICATE

## 2.2

Size : M30X1000

Nr. : 2008139

Specification: ISO 898-1(2009) 8.8

### Chemical composition

|                | C (c)          | Si          | Mn          | P            | S            | Ni | Cr          | Mo | Cu | Al | Pb | Sn | B |
|----------------|----------------|-------------|-------------|--------------|--------------|----|-------------|----|----|----|----|----|---|
| Min.           | 0.15 /<br>0.25 |             |             |              |              |    |             |    |    |    |    |    |   |
| Max.           | 0.40 /<br>0.55 |             |             | 0.025        | 0.025        |    |             |    |    |    |    |    |   |
| <b>Results</b> | <b>0.41</b>    | <b>0.25</b> | <b>0.58</b> | <b>0.020</b> | <b>0.009</b> |    | <b>0.88</b> |    |    |    |    |    |   |

(c) See notes in norm ISO 898-1 table 2

### Mechanical properties

|                | Yield Strength.<br>R <sub>p0.2</sub> N/mm <sup>2</sup><br>≤M16-->M16 | Tensile Strength.<br>R <sub>m</sub> N/mm <sup>2</sup><br>≤M16-->M16 | Elongation<br>A % | Impact<br>strenght<br>K <sub>v</sub> Joules<br>(charpy) | Hardness<br>Rockwell<br>HRC<br>≤M16-->M16 | Reduction<br>after fracture<br>Z % |
|----------------|--|---|-------------------|---|---|------------------------------------|
| Min.           | 640 - 660  | 800 - 830   | 12%               | 27(-20°C for<br>≥M16)                                   | 22 - 23                                   | 52%                                |
| Max.           |  |   |                   |   | 32 - 34                                   |                                    |
| <b>Results</b> | <b>805</b>   | <b>928</b>  | <b>14</b>         | <b>51</b>   | <b>29</b>                                 | <b>53</b>                          |

Remarks :Material hardened and tempered on min.425°C

All information given is based on original certificates or own tests on the material in cold drawn, or finished condition.