



**BODEGRAVEN**  
METAAL - N.V. S.A.



**Q.S.: P244**

## CERTIFICATE

COPY OF ORIGINAL EN 10204 3.1 CERTIFICATE FROM THE BASIC MATERIAL

**Size : M10X1000 HDG ISO**

**Nr. :**

**Specification: ISO 898-1 (2013) 8.8**

### Chemical composition

	C(*)	Si	Mn	P	S	Ni	Cr	Mo	Cu	Al	Pb	Sn	B(*)
Min.	0,25												
Max.	0,55			0,025	0,025								0,003
<b>Results</b>	<b>0,36</b>	<b>0,20</b>	<b>0,80</b>	<b>0,016</b>	<b>0,002</b>		<b>0,00</b>	<b>0,00</b>					

\*See note norm 898/1 table 2

### Mechanical properties (Harden and tempered on min. 425°C)

	Yield Strength. 0,2Rp N/mm <sup>2</sup> ≤M16-->M16	Tensile Strength. Rm N/mm <sup>2</sup> ≤M16-->M16	Elongation (A%)	Impact strength Joules (charpy)	Hardness Rockwell (HRC) ≤M16-->M16	Reduction after fracture (Z) %
Min.	640 - 660	800 - 830	12	27(-20°C)	22 ~ 23	52
Max.					32 ~ 34	
<b>Results</b>	<b>856</b>	<b>932</b>	<b>14</b>		<b>28</b>	<b>55</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. We hereby declare that the products described above have been tested and comply with the terms of the orders and official condition.

**Original EN 10204 3.1 Certificate number:** 23090703

**Quality control**

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