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TEST REPORT No. 16-1121		Date: <u>29.06.2016</u>
Ordered by: ADIT YVES LTD.		
Address: Moshav Bnei Reem , Israel		
Part Description: ADIT BT 12x150	Material: Steel	
Standard: EN-ISO 898-1:2013	Property Class: 8.8 or more	

1. TEST RESULTS**1.1 Chemical Analysis**

The chemical analysis was performed using optical emission spectrometry (OES), in accordance with Work Instructions 25/19, Rev.2.

Element, %	C	Si	Mn	P	S	B ^[3]	Cr	Ni	Mo	V	Al	Fe
Results	0.20	0.24	0.53	0.010	0.002	0.0002	0.91	0.02	0.15	0.005	0.01	Rest
Standard Req. for Property Class 8.8 & 10.9-	Min	0.20	-	-	-	-	-	-	-	-	-	Rest
	Max	0.55	-	-	0.025	0.025	0.003	-	-	-	-	Rest
ISO 898-1: 2013 Standard Req. for Property Class 12.9	Min	0.30	-	-	-	-	-	-	-	-	-	Rest
	Max	0.50	-	-	0.025	0.025	0.003	-	-	-	-	Rest

1.2 Tensile Test

The tensile test was performed on a round sample (4D), ø 6 mm (L₀=24 mm), in accordance with ASTM E8-15a standard.

	0.2% Yield Strength [MPa]	Ultimate Tensile Strength [MPa]	Elongation, [%]	Reduction of Area [%]
Results	1010	1520	14	52
Standard Req. for Property Class 8.8, Min.	640	800	12	52
Standard Req. for Property Class 10.9, Min.	940	1040	9	48
Standard Req. for Property Class 12.9, Min.	1100	1220	8	44

Room Temperature: 25±5°CHumidity: 40±20%**2. Remarks:** (-)**3. Conclusions:**

- 3.1 The chemical composition of the bolt complies with standard requirements for EN-ISO 898-1:2013 for property class 8.8 & 10.9.
- 3.2 The mechanical properties of the bolt comply with standard requirements for EN-ISO 898-1:2013 for property classes 8.8, 10.9 & 12.9.

Prepared by:
 Luba F.
 Materials Engineer

Approved by:
 Dr. Boris Feldman
 Laboratory Manager

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