

WP 1819/BS/HAU

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TÜV\*

DUPLICATE

**Ref.:** Material analysis for two lightning conductor tops placed as  
disposal  
Type "Schirtec-DA" and "Schirtec-A"  
Personnel order by Mr. R. Schirinian  
TÜV-Order.Nr. 2004-WS/PZW-EX-0-000751

## REPORT

About the material analysis executed in the Vienna Test Center of the  
TUEV Austria from August 10<sup>th</sup> until September 30<sup>st</sup> 2004.

### Test subject

Two lightning conductors tops named "Schirtec-DA" und "Schirtec-A". The  
following technical data were given us from the customer:

	"Schirtec-DA"	"Schirtec-A"
Weight:	3,7 kg	2,8 kg
Length:	700 mm	590 mm
Greatest outside diameter-Ø:	120 mm	120 mm

There is no declaration about the used material.

### Purpose of the test

It was to find out by use of spectral analysis which material or material  
compounds have been used for the production of the lightning conductors  
and whether the both mentioned types have been produced out of equal  
material.

Prüfstelle,  
Inspektionsstelle,  
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**Notified Body 0408**

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**Firmenbuchgericht/  
-nummer:**  
Wien / FN 288476 f

**Bankverbindungen:**  
UC BA 52949 001 066  
IBAN  
AT131200052949001066  
BIC BKAUATWW  
RZB 001-04.093.282  
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UID ATU63240488  
DVR 3002476

Carrying out the test:

The lightning conductors were dismantled into their component parts and in the following for each component part a spectral analysis was done. For the test of the material compound it was used the test device PMI-MASTER PLUS Spark spectrometer, serial Nr. 01DO 109.

Test result

The following material compounds were realized:

Ferritic chrome alloyed material – component part "lamella (Lamelle)", see enclosure (1 page);

Copper material – component parts "top (Aufsatz)", "can (Dose)", "connecting link (Verbindungsstück)" and "upper part (Oberteil)", see enclosures (4 pages);

Brass material – component part "point (Spitze)", see enclosure (1 page).

Tests of the component parts type "Schirtec-A" showed equal material in the applied cases.

To sum it up one can say that for the concrete lightning conductor tops of the type "Schirtec-DA" and "Schirtec-A" high quality material has been used. Sustainable environmental influences by use of those materials or their chemical elements when operating with those devices are not known by the undersigned testing body.

Vienna, October 22<sup>nd</sup> 2012  
TÜV Austria  
Division of material and welding technology



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