

Firma SCHIRTEC Trading GmbH Ignaz-Köck-Straße 8/Top 3 1210 Wien

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 10th until September 30st 2004.

Test subject

Ref.:

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	120 mm	120 mm
diameter-Ø:		

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.



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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)", "conntecting 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, December 6th 2004

TÜV Austria

Head of the department division of material and welding technology

Ing. Günter Balas sen.