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Evaluating the Protection on Sterling Silver Tubes from 3M Silver Protector Strips and Cortec VpCI SilverBrite Papers

Background: Rob Viola/Verne Q Powell Flutes Inc, submitted sterling silver tubing to Cortec

Corporation. Along with the sterling silver tubing, 3M silver protector strips were submitted. A packaging solution is sought that will prevent staining/discoloration of

silver products.

Purpose: Evaluate the protection offered to sterling silver tubing from 3M Silver Protector Strips

and Cortec SilverBrite VpCI paper.

Method: Cortec Corporation H₂S test

Materials: 5 sterling silver tubes

Cortec SilverBrite VpCI paper 3M Silver Protector Strips

Procedure: The above tests were performed according to standard procedures for each.

Results:

Cortec Corporation H₂S Test

Material	Amount of Tarnish on sterling silver tube (%)
Sterling silver tube enclosed within 3M silver	50-60% tarnished/discoloration
protector strips	
Sterling silver tube enclosed within Cortec	1-5% tarnished/discoloration
SilverBrite VpCI paper	
Sterling silver tube enclosed within 35# neutral	100% tarnished/discoloration
natural kraft paper (control)	

Conclusion: Cortec SilverBrite VpCI paper provided the best protection to the sterling silver

tubes when exposed to the H₂S test.

Project #: 03-210-1125

Estimated Cost of Project: 2 hours

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3M



Control



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