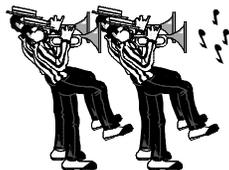


“HAPPY NEW YEAR 2010”



from



Met-L-Chek® and the Penetrant Professor

ASTM and SAE Committee K Meetings

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The annual meeting of Committee K will be held, as usual, in Plantation, Florida during the ASTM week of January 25. The topic of **ASTM E-1417** is certain to be on the agenda as well as those damn TAM panels.

ASTM E-1444 has been revised and there are items of difference that will be under review as well.

An interesting item regarding spray cans of MPI materials was raised by one of our distributors, Neil Breslow. This had to do with particle concentrations in aerosol cans being sufficient to reveal discontinuities. There is no provision in **ASTM E-1444** to ensure an aerosol can of MPI materials actually has particles in it, although a well qualified inspector, one would think, would note something being



amiss if there were no particles. A simple solution would be to spray the material on one of those credit card sized magnetic gradient test pieces or permanently magnetized part with known defects prior to performing a spray can inspection.

We will report on any actions or key points of the committee discussions.

Penetrant Inspection and Painting

We had a question recently about painting a part after it had been inspected with visible penetrant. Can this be done? Of course it can, but if the part is not cleaned before hand, you will probably be unsatisfied with the results. The penetrant is petroleum solvent based, so if a water base paint is used, the penetrant and the paint will not mix and the paint might not adhere. If a petroleum solvent based paint is used, the penetrant and paint will probably mix, but the

red color of the penetrant will come thorough to the surface. Cleaning the part prior to painting is the correct way to do the job.



Pratt & Whitney FPM Updated

The FPM Master is being updated and there are numerous material changes. If you work to Pratt specifications you will want to be on top of these changes. It just might be an ideal time to consider switching to **Met-L-Chek®** penetrants to hold down your costs.

Call us at **310-450-1111** or one of our helpful distributors to help make the conversion.

Met-L-Chek Company, 1639 Euclid Street, Santa Monica, California, 90404, U.S.A.

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WORTH READING

The December issue of MATERIALS EVALUATION has two interesting articles in it concerning penetrant inspection. The first, by Tim McAnally, discusses the question of positive faults, and how it may be easier to detect these using visual inspection prior to penetrant inspection.

The second article, by Charles Mazell points out the importance of using UV blocking glasses while performing penetrant inspection, especially if the inspector has had eye lens replacement surgery. This surgery removes the human lens that has some UV blocking ability, and this causes a totally different picture of the parts under inspection. It is a compelling article that every inspector should read and understand. Both articles have colorful graphics and their presentation is due to the skillful direction of David Fanning, the ME editor.



CERTIFICATIONS

We are often asked why we do not post certifications on our web site. The answer is that there are a myriad of differences in the certifications that different customers require, and we are not able to post all of the possible configurations that come our way.

The simplest certification is usually one that states that the

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products meet the requirements of **AMS-2644** and are listed on the QPL. But from there the certifications become more specific and more detailed and finally may be tailored to one particular customer.

Examples include certifications that include the Pratt & Whitney PMC numbers, together with the accompanying analyses for trace elements, certifications to the ASME Boiler and Pressure Vessel Code, certifications for materials intended for use in nuclear applications, and those needing to meet the requirement of the U. S. Navy. There are others, sometimes seeming to show up out of nowhere, and requiring special elemental analyses. Customers who want their name, PO # or a drawing number on the certification. Customers who want a specific specification revision number or even specific wording not in a specification.

We satisfy all of these requests, but it is never possible for us to out-guess our customers and to post their particular certifications on line.

WINTER



We send certifications with each order but should you need a copy, simply send us an e-mail with the batch number and product name and your specific needs and we will respond back with your needed certification, done your way!

The Penetrant Professor

