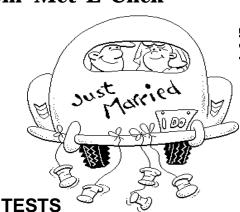


WATER QUALITY

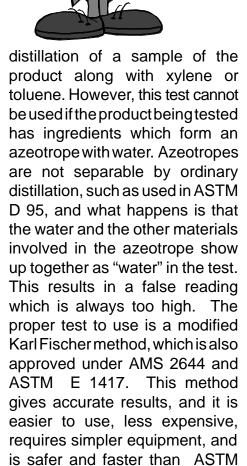
Many of the questions that we get seem to be really simple, but if they truly were simple, we would probably not get them. Recently we were called by a customer who wanted to use our 300LF alkaline cleaner in one of his factories which was in a foreign country. 300LF is diluted with water, and the customer wanted to know whether or not he needed to analyze the water to be sure that the product would work satisfactorily. This was a wise precaution on the part of the customer, but it turns out that his concern was not necessary. 300LF is used in many parts of the world, with whatever water quality is present, and it performs properly. In addition to the alkaline components of 300LF, it contains sequestering agents and other components which compensate for variations in water quality. Be assured that if you use this product, water quality is not a major issue.



We all have to make tests on penetrant products. These are to verify that what is in use is OK. However, there are tests and then there are — well, tests. It pays to know a bit about these, because, as the old saying goes, knowledge is power, especially if you are undergoing an audit. Of course, if you are a penetrant user, one of the best ways to finesse an audit isto have your periodic tests made by an approved laboratory, such as Met-L-Chek. That way, you do not have to know the details and the intricacies of the various tests. and justify them to the auditor.



Let's look at the water test. The amount of water which is allowed in undiluted hydrophilic emulsifier is 5%, and the amount of water whichisallowedinwaterwashable penetrantsisalso5%. The original test specified for verifying this was ASTM D 95, which involves the



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Frankly, we hate the brightness test. We have argued for years about how good it is, what it and whether means. it is necessary. But in spite of many efforts to kill the test, it persists to this day. However, it has problems. The main problem is

D 95. If you want a copy of the

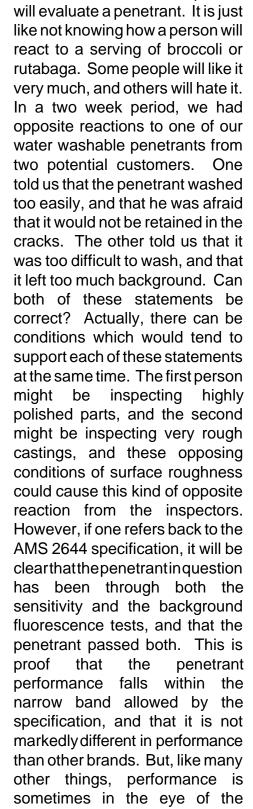
procedure, let us know, and we

will be happy to send it.



THE EYE OF THE BEHOLDER

what equipment to use. The original equipment which was specified in MIL-I-25135 was the Coleman or Turner photofluorometer, which required modified sample holders. then, some 20 years or so ago, both the manufacturers of these instruments stopped making them. So if you did not already own one, you were simply out of luck. Seeing an opportunity to provide such an instrument, NDT Italiana SAS developed instrument to replace the old Colemans and Turners. instrument, the model S 291, was testedandapprovedforuseunder ASTM E 1417. So, is everything OK? Far from it. Under extensive testingatMet-L-Chek,itwasfound that brightness tests made on the same samples by the three instruments were not statistically equivalent. This means that if a test is made on any one of the instruments and the sample passes, there is no guarantee that the same sample will pass if it is tested on one of the other machines. This situation seems silly to us, but strangely enough, it does not seem to bother anyone else. But it would be good to keep the situation in mind. At Met-Lwe use a Coleman Chek. instrument which has been calibrated by the Air Force Materials Laboratory personnel.



beholder.



SPOTLIGHT - BEVERLY

When you phone Met-L-Chek, you will usually get the cheery voice of Beverly Clarke on the phone. Cheery is really Beverly's forte. She is perpetually upbeat, and her ready laugh and warm personality make her a favorite with our customers. Beverly will take your order, explain about product differences, advise on shipping, or add your name to the distribution list for THE PENETRANT PROFESSOR. Need an MSDS? Ask Beverly and it is yours. Want technical help? Beverly will put the right person on the phone. She has been with Met-L-Chek for over six years, and has a well rounded knowledge of the business. In her off hours. Beverly uses her caring and thoughtfulness in church work, and in feeding the homeless. You will enjoy talking to her and doing business with



PENETRANT PROFESSOR is an occasional publication of Met-L-Chek. To receive it. call or FAX Reverly Clarke