

hic测试hic试验hic价格hic方式

产品名称	hic测试hic试验hic价格hic方式
公司名称	江苏正盛特种设备材料技术检验有限公司
价格	30.00/件
规格参数	类型:金属
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产品详情

二、试验方法

. Test Method

2.1 试验按NACE TM0284-2003执行。

2.1 The test is conducted according to NACE TM0284-2003.

2.2 试验溶液为A溶液，即5%NaCl+0.5% CH₃COOH +饱和硫化氢水溶液。

2.2 The testing solution is solution A, which is composed of 5.0 wt% sodium chloride and 0.5 wt% glacial acetic acid and saturated H₂S aqueous solution.

三、试验步骤

. Test Procedure

3.1 试样尺寸

按照标准要求，试样数量为3件。检测面如图1所示。

3.1 Sample Dimensions

According to the requirements of test standard, three samples are required in each test. The surfaces which are sectioned and examined after exposure are shown in Fig. 1.

3.2 用蒸馏水和分析纯级化学药品配成本次试验的试验溶液。

3.2 Prepared the test solution with distilled water and analytically pure agents.

3.3 试验前，试样用肥皂水脱脂，然后用酒精清洗。将处理（除油、打磨）好的

试样装夹在专用的有机玻璃试样架上，放入试验容器中，待溶液注入试验容器后将容器密封。

3.3 Prior to testing, degrease the test samples with soap water and rinse with alcohol. Put the prepared (ground and oil removed) samples on the special organic glass rack, put them in the test container, inject test solution into the container and then seal it.

图1 HIC试样尺寸

Fig. 1 Sample dimensions

3.4 以2升/分钟的速度通入N₂1小时脱氧。所用N₂的气体纯度为99.9%以上。

3.4 The solution shall be deaerated by bubbling nitrogen at a rate of 2 L/min for 1 hour. The N₂ gas purity shall be 99.9 vol% or better.

3.5

关闭N₂，以2.4升/分钟的速度通入H₂S气体1小时，然后将H₂S通气速度降为0.12升/分钟，持续96小时。

3.5 The solution shall then be saturated at least for 1 hour by bubbling H₂S at a rate of 2.4 L/min. As long as saturation is achieved, the H₂S gas flow rate shall be reduced to 0.12 L/min, and maintained at this rate for the test period of 96 hours.

3.6 通气完毕，取出试样在流水中清洗，并用酒精清洗，在冷风中吹干。

3.6 Upon completion of aeration, the samples shall be removed from the solution and cleaned in flowing water. The samples shall be dried in cold air after being immersed in ethyl alcohol.

3.7 按标准切割试样并进行金相观察。

3.7 Cut samples and make metallographic examinations according to the standards.

四、试验结果

.Test Results

对于5%NaCl+0.5% CH₃COOH
+饱和硫化氢水溶液，起始时试验溶液的pH测试值为2.7，试验后溶液的pH测试值为3.6。

按试验标准的要求放大100×对断面进行检查，评定试板的裂纹敏感率（CSR）、裂纹长度敏感率（CLR）、裂纹厚度敏感率（CTR）。试验结果见表1~18和图2~19。

For 5%NaCl+0.5% CH₃COOH solution saturated with H₂S gas, the initial pH value is 2.7 and the final pH value is 3.6.

According to the requirements of the standard, all the cross sections are checked on by 100× magnification. The Crack Sensitivity Ratio (CSR), the Crack Length Ratio (CLR) and the Crack Thickness Ratio (CTR) are evaluated. The results are shown in Table 1~ Table 18 and Fig 2~ Fig 19.