

**MOIST AMMONIA-AIR STRESS CRACKING TEST DATA SHEET  
(SECTION 3-7)**

**TEST L**

TEST ORDER	SECTION NO.	TESTING DESCRIPTION	WHO	DATE	RESULTS	SIGN OFF
	3-7	<b>Moist Ammonia-Air Stress Cracking Test</b>				
	3-7.1	Nozzles or components made from copper alloys containing more than 15 percent zinc shall withstand exposure to a moist ammonia-air mixture for 10 days without cracking.	TIM	7/8/99	Nozzle material is 6061-T6 aluminum.	TIM
	3-7.2	Each test sample shall be subjected to the physical stresses normally imposed on or within the sample as the result of assembly with other components or a coupling. Such stresses shall be applied to the sample prior to the test and maintained during the test. Each sample shall be connected to an appropriate male coupling and tightened to the minimum torque necessary to produce a leak tight assembly.	TIM	7/8/99	N/A	TIM
	3-7.3	The samples shall be degreased, supported by an inert tray in a glass chamber with a glass cover 1.5 in. (38.1 mm) above an aqueous ammonia solution, and then continuously exposed for 10 days in a set position to a moist ammonia-air mixture. Approximately 0.16 gal (600 ml) of aqueous ammonia having a specific gravity of 0.94 shall be maintained in the glass chamber per cubic foot of container. The moist ammonia-air mixture in the chamber shall be maintained at atmospheric pressure and at a temperature of 93°F (34°C).	TIM	7/8/99	N/A	TIM
	3-7.4	At the conclusion of the exposure, the samples shall show no evidence of cracking when examined using 25X magnification.	TIM	7/8/99	N/A	TIM

**NOZZLE SAMPLE INFORMATION:**

MODEL HMD-VPGI  
SERIAL NUMBER: