

48488-4 Rev. 1 Dust

Prepared for SEAHORSE Attention: Mr. Darin Chambers	Test dates	
	Start	5/30/2013
	Completion	6/3/2013
	Environ test number	48488-4 Rev. 1
	Purchase order number	16670
	Purchase date	5/3/2013

Environ Laboratories LLC certifies that three plastic cases were subjected to a Dust Test, as specified in **IEC 60529**, Edition 2.1, dated 2001-02, Category 1, **IP6X**, as requested in SEAHORSE purchase order 16670, dated May 3, 2013.

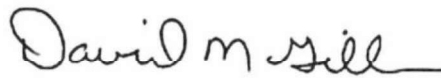
Submitted by	SEAHORSE
Device	Three (3) Plastic Cases
Model/part number	SEAHORSE SE 540, SEAHORSE SE 630, SEAHORSE SE 920
Serial number	N/A

The results of this test apply only to the units identified in this engineering report by device identifier and model / part number, or serial number.

The first test unit was placed on the mounting rack inside the dust chamber. A line to the vacuum pump was connected to the unit under test. Internal unit pressure was reduced by 2 kPa and a leak rate was measured. The correct amount of talcum powder was introduced into the chamber and the chamber was sealed. The dust activation system was started, and the vacuum pump was energized. The duration of the exposure was 8 hours. Upon completion of the exposure, the test unit was removed from the dust chamber and examined for evidence of dust penetration. The above procedure was then repeated for the second and third units. Visual examination of the test units upon completion of the exposure revealed **no evidence of dust infiltration**. The test units were returned to SEAHORSE.



Sergei L. Bazhgin, Test Engineer



David M. Gillen, Vice President

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Instrumentation

All instrumentation is calibrated regularly by instruments directly traceable to the National Institute of Standards and Technology, and in accordance with *MIL-I-45208A*, *ANSI/NCSL Z540.3-2006*, and *ISO/IEC 17025: 2005*.

Equipment Number	Description	Manufacturer	Model Number	Last Calibration	Due Calibration	Range
186-004BE	Talc	Powder Technology Inc	Talc #399	N/A	N/A	See Certificate of Conformance
400-066	Stopwatch	Extech Instruments	365510	4/29/2013	4/29/2014	0 to 23 hrs, 59 mins, 59 sec
504-019	Dust Chamber	Environ	D-4	N/A	N/A	N/A
504-038	Dust Chamber	TRW	D-6	N/A	N/A	1 cubic meter
710-337	Differential Pressure Gauge	Dwyer Instruments	2015	5/1/2012	7/1/2013	0 to 15 in. H ₂ O
717-142	Flowmeter	Dwyer Instruments	RMA-12-APF-TMV	5/29/2012	5/29/2013	50 to 500 cc/min air