



Component Certification Specification

Company name: VarTek Industries **Corporate Number:** 3B940
Location(s): Tampa, FL **Plant Number:** 3B941
Products(s): VarTek PVC Pool & Spa Hose
Color: White
Sizes: ½”, ¾”, 1”, 1 ¼”, 1 ½”, 2”, 2 ½”, and 3”
Standard(s): NSF/ANSI Standard 50 and IAPMO PS 33

Purpose: This product is covered by the scope of NSF/ANSI Standard 50 (currently 2007) and IAPMO PS 33 (currently 2007a) applicable requirements can be found within the body of the standards. This component specification is intended to document the portions of the standards that apply to this product and any additional requirements which must be met as part of NSF certification.

Materials (NSF/ANSI Standard 50):

Must comply Section 3

Design and Construction (NSF/ANSI Standard 50):

Must comply with Section 4 including cyclic testing 0-30-0 psi 20,000 cycles, and IAPMO PS 33.

Marking

The hose shall be clearly and permanently marked or labeled with the following:

- Company name and address (**NSF/ANSI Standard 50 and IAPMO PS 33**)
- Trade/model designation (**NSF/ANSI Standard 50 and IAPMO PS 33**)
- NSF Component Mark (**NSF/ANSI Standard 50 and IAPMO PS 33**)
- Maximum working pressure (**NSF/ANSI Standard 50**)
- Maximum design flow rate (**NSF/ANSI Standard 50**)
- Maximum head loss (**NSF/ANSI Standard 50**)
- Manufacturers minimum bend radius (**IAPMO PS 33**)
- “use with Listed solvent cement and primers” (**IAPMO PS 33**)
- Nominal size (**IAPMO PS 33**)
- Date code (with explanation of date code received during audit-(**IAPMO PS 33**))
- Marking must be permanent and legible, and at intervals of not more than 10 feet (**IAPMO PS 33**)

In-Plant QC Tests w/Auditor to Verify (IAPMO PS-33):

The following dimension tests are required every two hours during production:

1. Outside Diameter
2. Wall Thickness
3. Helix Height
4. Helix Width
5. Helix Pitch

These dimensions must meet the requirements of Table 2-1 of IAPMO PS 33



72°F Burst is required at start up and once per 24 hours. As an alternative, each shipment of material must be accompanied by test data for material randomly selected from that shipment, and supplier certification that the shipment meets the requirements of table 2.2 of IAPMO PS 33.

Sampling and Testing (IAPMO PS-33 and NSF 50):

Product to be sampled for full retesting every 5 years. Sample to be collected during the audit. NSF will test the product to NSF 50 (NSF 50 Section 3 Materials and Cyclic pressure testing 0-30-0psi 20,000 cycles) and IAPMO PS 33 requirements.

Flexible Spa Hose Material –Beaker Code T6032A for each material P6048, P6049, P6050, P6051, P648E

Collect 50 pounds of raw flexible PVC material and milling and molding specifications. Material to be fabricated into 5” x 5” plaques, 2 plaques at 0.25” thickness, 3 plaques at 0.75”, and 3 plaques at 0.125”. If materials are provided for molding at NSF. The client shall complete and submit a molding instruction form (that is provided by NSF Staff) to ensure NSF properly molds the material per manufacturer recommendations. Collect sample for each material that is authorized for use.

Flexible Spa Hose Performance – Beaker Code T6032B For each size ~ P6000, P6053, P6054, P6055, P6056

Collect one coil (25 feet minimum) of each size of tubing.

This document describes the annual and 5 year sampling and testing and in-plant QC requirements for the product(s) given above. This document will be maintained on file at the VarTek Industries production facility and NSF International. This doc