

TEST REPORT

Chuo Hatsumei Institute Co., Ltd.

Date of report. : Apr./7/2023

Report number : M-601E-001

1. Specification title.
Impregnants for cast or powder metal components.
2. Specification number and date.
MIL-I-17563C (class 1 and 3) 18 September 1992.
MIL-I-17563C, "Impregnants for Cast or Powder Metal Components" dated 18-Sep-1992, superseding MIL-I-17563B dated 4-Apr-1985, and with MIL-17563C NOTICE 1-Validation, dated 24-Dec-2020.
3. Name and mailing address of the manufacturer.
Chuo Hatsumei Institute Co., Ltd. (NCAGE : SRN62)
539 Nihongi, Mizuho-machi, Nishitama-gun, Tokyo #190-1201 Japan.
4. Name and location of testing laboratory.
Same as above.
5. Purpose of tests, and Specification Class
Qualification testing to determine conformance to class 1 and 3, under MIL-I-17563C.
6. Product name (Test object)
Super Seal P-601E
7. Proprietary marking



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Abstract

Table 1 shows the results of the qualification testing for MIL-I-17563C on “Super Seal P-601E”

Table.1 Summary of Super Seal P-601E test results.

Test(Requirement) and Test Paragraph		Fail or Pass	
3.2 Material	4.3.1 Material stability	Pass	
3.3 Volatility		Pass	
3.4 Weight loss	4.5.4.3 Weight loss	Pass	
3.5 Recovered materials		Pass	
3.6 Pot life	4.3.1.1 Pot life test	Pass	
3.7 Storage life	4.3.1.2 Storage life test	Pass	
3.8 Curing	4.5.4 Cure tests	Pass	
3.9 Leakage	4.5.5.5 Pressure leakage test	Pass	
3.10 Compatibility	Water	(Boiling)	Pass
	Oil	MIL-PRF-17672E	Pass
	Hydrocarbon Fluid	TT-S-735A	Pass
	Carbon Removal	P-C-111D	Pass
	Lubricating oil	MIL-PRF-7808L	Pass
	Turbine fuel	MIL-DTL-5624W	Pass
	Ethylene glycol	MIL-E-9500B	Pass
	Hydraulic fluid	MIL-DTL-17111E	Pass
	Fuel	ASTM D 910	Pass
	Diester grease	MIL-PRF-23827C	Pass
	18% Sulfuric acid	O-S-809E	Pass
	Stoddard solvent	MIL-PRF-680C	Pass
	Ethyl alcohol	MIL-E-463B	Pass
Thermal resistance	300 ± 5°F	Pass	
3.11 Effect on paint (class 3 only)	4.6. Effect on paint systems (class 3 only)	Pass	
3.13 Filterable solids	4.5.2 Test for filterable solids.	Pass	
3.14 Toxic products and formulations	4.8. Toxic products and formulations	N/A	

※The above specification's document IDs are updated to the latest version.