

CURRENT STANDARDS AND TEST PROCEDURES

Standards	Description	Climatic condition*	Test time	Temperature range	Relative humidity (r.h.)	NaCl solution/ pH	Comment
DIN EN ISO 9227 NSS	Corrosion testing and salt spray	C	Continuous	35 ± 2°		5% NaCl (pH 6,5 - 7,2)	pH value setting with hydrochloric acid or
DIN EN ISO 9227 AASS	Corrosion testing and salt spray	C		35 ± 2°C		5% NaCl (pH 3,1 - 3,3)	pH value setting with glacial acetic acid
DIN EN ISO 9227 CASS	Corrosion testing with salt spray and copper chloride	C		50 ± 2°C		5% NaCl (pH 3,1 - 3,3)	Salt solution with 0.2 g/L copper chloride and pH value setting with glacial acetic acid
DIN EN ISO 6270- 2 CH	Condensed water testing	C	Continuous	40 ± 3°C	100%		Dew formation
DIN EN ISO 6270- 2 AHT	Condensed water testing	V	8h	40 ± 3°C	100%		Dewing chamber opened or ventilated
			16h	18 - 28°C	below 100%		
DIN EN ISO 6270- 2 AT	Condensed water testing	C	8h	40 ± 3°C	100%		Dewing chamber closed Heat stop without ventilation
			16h	18 - 28°C	below 100%		
DIN EN ISO 11997-1 Cycle B (VDA 621-415)	Salt spray test according to DIN EN ISO 9227 NSS 4-cycle condensed water test according to DIN EN ISO 6270-2 AT Ventilation	V	24h	35 ± 2°C		5% NaCl (pH 6,5 - 7,2)	1 cycle = 1 week
			8h	40 ± 2°C	100%		
			16h	35 ± 2°C	50 ± 20%		
			48h	23 ± 2°C	50 ± 20%		
VDA 233-102 (NEW) Cycle A	Salt spray phase with change of temperature and humidity	V	3h	35 ± 2°C	50 - 95%	1% NaCl (pH 6,5 - 7,2)	Comprises cycles: A B A C A B B
			21h	35 - 50°C			
VDA- 233-102 (NEW) Cycle B	Temperatur- und Feuchtewechsel	V	24h	35 - 50°C			
VDA 233-102 (NEW) Cycle C	Tiefkühlphase Temperatur- und Feuchtewechsel	V	9h	-15°C			
			15h	35 - 50°C			
VW PV 1210	Salt spray test according to DIN EN ISO 9227 NSS Normal climate Condensed water test according to DIN EN ISO 6270-2 CH Normal climate	V	4h	35 ± 2°C		5% NaCl (pH 6,5 - 7,2)	
			4h	23°C	50%		
			16h	40 ± 3°C	100%		
			48h	23°C	50%		
VW PV 1200	Alternating climate testing	W		-40 - 80°C	30 - 80%		Change of temperature and humidity
VW PV 1209	Cyclical corrosion testing	V		-40 - 80°C	30 - 80%	40g NaCl + 10g CaCl pro Liter Wasser)	Combination of PV 1210 and PV 1200, deviating salt solution, 1 cycle = 1 week
ACT I Volvo VCS 1027,149 Volvo STD 1027,14 Volvo STD 423-0014 Scania STD 4319	Cyclical corrosion testing	V		35 - 45°C	50 - 95%	1% NaCl; (pH 4,2)	Sprinkling phase, pH value Setting with sulphuric acid
ACT II Volvo VCS 1027,1449 Ford L 467	Cyclical corrosion testing	V		25 - 50°C	70 - 95%	0,5% NaCl	Sprinkling phase
DIN EN ISO 6988 (Kesternichtest)	Condensed water testing with sulphur	V	8h	40 ± 3°C			Depending on room volume, 0.2 l to 2 l is added, chamber is ventilated
	Ventilation		16h	18 ± 28°C			
DIN EN ISO 11997-2	UV exposure with UVA lamps	V	4h	60 ± 2°C			1 cycle = 24h
	Condensed water test according to DIN EN ISO 6270-2 AHT		4h	50°C	100%		
	Salzsprühnebelprüfung		1h	23 ± 2°C	5% NaCl		
	Drying phase		1h	35 ± 2°C			

*C = constant / V = varying

Subject to change. Status September 2021