FREUDENBERG
SEALING TECHNOLOGIES

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OVERVIEW CERTIFICATIONS FOR THE PROCESS INDUSTRY

	APPROVALS	ORGANIZATION	LEGAL BASIS	AREA OF APPLICATION	TESTING INSTITUTE	TESTING ON	VALIDITY Period	TESTING CRITERIA
Trinking water industry	W 270	DVGW – Deutscher Verein des Gas- und Wasserfaches (German Association of Gas and water)	Recommen-dation	Germany	DVGW-certified laboratories	Material	5 years	Microbiological examination
	KTW – materials in drinking water	BfR – Bundesinstitut für Risikobewertung (Institute for Risk Assessment)	German Food and Feed Code LFGB (§2 para. 6 sentence 1 no. 1)	Germany	DVGW-certified laboratories	Material and product	5 years	BfR positive list Chlorine loss TOC (total organic carbon) level Migration tests
	ACS	ACS – Attestation de Conformité Sanitaire (French association for sanitary affairs)	AFNOR XO P41-250 part 1 – 3 (Association française de normalisation	France	CRECEP – Paris LHRSP – Nancy IP – Lille	Material and product	5 years	Positive list Material composition Cytotoxicity TOC level
	WRAS	WRAS – Water Regulations Advisory Scheme	BSI 6920 und BS 2494	Great Britain	WRAS-certified laboratories	Material and product	5 years	Material composition Manufacture Cytotoxicity Migration tests
	ÖNORM	ÖVGW – Österreichische Vereinigung für das Gas- und Wasserfach (Austrian Association of Gas and Water)	ÖNORM B5014/part 1	Austria (also accepts the KTW-test)	ÖVGW-certified laboratories	Material and product	5 years	Positive list Material composition Chlorine loss TOC level Migration tests

	KIWA	Ministerial Expert Committee + Toxicity Subcommittee	Direktive Doc. 94-01	Netherlands	KIWA	Material and product	5 years	Material composition Manufacture Toxicity test Migration tests Microbiological examination
	ETA-DK (Danish Board of European Technical Approvals)	DEPA und DTC	NKB rules + DS/EN standards	Denmark (also accepts the KTW test)	Certified laboratories	Material and product	5 years	Positive list Material composition Manufacture TOC level Migration tests
	NSF 61	National Sanitation Foundation	NSF Standard 61	USA	NSF-certified laboratories	Material and product	5 years with annual audit	Material composition Examination of the components Toxicity test Microbiological examination
	AS/NZS 4020:2005	AWQC – Australian Water Quality Centre	AS/NZS 4020:2005	Australia	AWQC-certified laboratories	Material and product	5 years	Material composition Manufacture Toxicity test Migration tests
Food and Beverage Industry	EU Reg. 1935/2004	European Parliament	EU Reg. 1935/2004	Europe	Every accredited testing laboratory	Material	unlimited	BfR 15. and 21. recommentaion cat. 4 ADI free
	EU Reg. 10/2011	European Parliament	EU Reg. 10/2011	Europe	Every accredited testing laboratory	Material	unlimited	Determination of OML and SML values in different media and temperatures
	BfR 21. recommendation for rubbers	BfR – Bundesinstitut für Risikobewertung (Institute for Risk Assessment)	LFGB (German Fodd and Feed Code)	Germany	Every accredited testing laboratory	Material	unlimited	BfR positive list Migration tests (subdivided into categories, depending on the contact time)
	FDA	Food and Drug Administration	FDA 21 CFR 177.2600 (Elastomers & Perfluoro-elastomers) FDA 21 CFR 177.1500 (Plastics)	USA (also accepted in Europe)	Every accredited testing laboratory	Material	unlimited	FDA Positive list Migration tests

	NSF 51	National Sanitation Foundation	FDA 21 CFR 177.2600 (Elastomers & Perfluor-elastomers) FDA 21 CFR 177.1500 (Plastics)	USA	NSF-certified laboratories	Material and/or product	5 years with annual audit	FDA Positive list Migration tests
	3-A® Sanitary Standards	3-A®	FDA 21-CFR 177.2600	USA (also accepted in Europe)	Every accredited testing laboratory	Material	unlimited	FDA Positive liste Resistance tests in defined media and classification according to secified limits
	ADI free		EMEA/410/01 rev2	Worldwide	Each individual material supplier	Material	unlimited	Testing of the formulation for animal-derived ingredients
Pharmaceutical Industry	USP Chapter 87	United States Pharmacopeia	USP 29	USA (also accepted in Europe)	Licensed laboratories	Material	unlimited	Testing of the compatibility on living organism (in vitro)
	USP Chapter 88 – USP Class VI – 121 °C (250°F)	United States Pharmacopeia	USP 29	USA (also accepted in Europe)	Licensed laboratories	Material	unlimited	Testing of the compatibility on living organism (in vivo)
Chemie	TA Luft							