



22.01.2016

INERTA 280

CHEMICAL RESISTANCE

The chemical resistance of the coatings was tested in continuous immersion at constant temperature of +23±3°C unless stated otherwise (ISO 2812). The coatings were painted in a system consisting of two INERTA 280 layers, 2 x 250 µm = 500 µm (total dry film thickness). Before painting the steel panels were blast-cleaned to surface preparation grade Sa 3 (ISO 8501-1).

Symbol "+" refers to good chemical resistance.

Symbol "-" refers to poor chemical resistance.

Symbol "+/-" refers to limited chemical resistance; contact Teknos.

Tested chemical or solution:	IMMERSION TIME		
	7 days	3 months	1 year
Acids and Bases			
Acetic acid 10%	+/-	-	-
Acetic acid 50%	-	-	-
Citric acid 10%	+	+	+
Citric acid 50%	+	+	+
Formic acid 1%	+	+/-	-
Formic acid 5%	-	-	-
Hydrochloric acid 10%	+	+	-
Hydrochloric acid 37%	+/-	-	-
Lactic acid 10%	+	+	+/-
Nitric acid 5%	+	+	+/-
Nitric acid 10%	+	+	+/-
Nitric acid 33%	+/-	-	-
Phosphoric acid 10%	+	+/-	+/-
Phosphoric acid 30%	+	-	-
Phosphoric acid 43%	+	-	-
Sulfuric acid 10%	+	+	+/-
Sulfuric acid 38,5%	+	+	+/-
Sulfuric acid 98%	+/-	-	-
Ammonia 10%	+	+	+/-
Ammonia 25%	+	+/-	-
Sodium hydroxide 10%	+	+	+
Sodium hydroxide 50%	+	+	+

PTO

Tested chemical or solution:	IMMERSION TIME		
	7 days	3 months	1 year
Solvents			
Acetone	-	-	-
Arom.hydrocarbons (Shellsol A)	+	+	+
Butylacetate	+	+	+/-
Butylglycolacetate	+	+	+
Diacetone alcohol	+	+	+
Ethanol, 95%	+	+	+
Ethylacetate	+/-	-	-
Ethyldiglycol	+/-	-	-
Formalin 37%	+	+	+
Formalin 18%	+	+	+
Iso-propanol	+	+	+
MEK	-	-	-
Methanol, 100%	-	-	-
MIBK	+	+	+
N-butanol	+	+	+
Toluene	+	+	+
White Spirit, 15% aromatics	+	+	+
Xylene	+	+	+

Tested chemical or solution:	IMMERSION TIME		
	7 days	3 months	1 year
Water, hydrocarbons and others			
Deionized water +40°C*	+	+	+
Deionized water +60°C*	+	+/-	+/-
Deionized water +85°C*	+	+/-	-
5% NaCl solution +40°C*	+	+	+
5% NaCl solution +60°C*	+	+/-	+/-
5% NaCl solution +85°C*	+	+/-	+/-
Raw bioethanol (a. 50% w./solution)	+	+	+
Tech. bioethanol (85% w./ solution)	+	+	+
Ethanol E85 (85 % ethanol in gasoline)	+	+	+
Ethanol E25 (25 % ethanol in gasoline)	+	+	+
Ethanol E15 (15 % ethanol in gasoline)	+	+	+
Lead-free gasoline	+	+	+
Biodiesel	+	+	+
Jetfuel	+	+	+
Brake fluid	+	+	+
Crude oil	+	+	+
Crude oil +60°C*	+	+	+
Crude oil +105°C*	+	+	+
Crude oil-water solution (70/30) +60°C*	+	+	+
Engine oil +60°C*	+	+	+
Engine oil +105°C*	+	+	+

* *no temperature gradient or "cold wall"-effect*



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