

# Rezistenta chimica

## Conditii pentru incercari (desen conform DIN 53428)

Perioada de reactie: 6 saptamani la temperatura camerei, cu exceptia acizilor, bazelor si solventilor concentrati: 7 zile la temperatura camerei.

## Beurteilungskriterium

Modificari la rezistenta la tractiune si la alungirea la rupere (esantioane uscate), modificari in volum.

## Nivele de evaluare

- 1... Rezistenta excelenta (modificarea proprietatilor cu <10%)
- 2... Rezistenta buna (modificarea proprietatilor intre 10% si 20%)
- 3... Rezistenta moderata (modificarea unelor proprietati de 20%)
- 4... Nerezistente (modificarea tuturor proprietatilor cu mai mult de 20%)

	Sylomer®			Produce speciale si combinatii de materiale		
	Sylodyn®	Sylodamp®	Sylomer® FR	Sylomer® EK	Sylomer® CT	
<b>Apa/solutii pe baza de apa</b>						
Apa	1	1	1	1	1	1
Clorura ferica 10%	1	1	1	1	1	1
Carbonat de sodiu 10%	1	1	1	1	1	1
Clorat de sodiu 10%	1	1	1	1	1	1
Clorura de sodiu 10%	1	1	1	1	1	1
Azotat de sodiu 10%	1	1	1	1	1	1
Substante tensioactive (diverse)	1	1	1	1	1	1
Peroxid de hidrogen 3%	1	1	1	1	1	1
Reziduu apos ciment	1	1	1	1	1	1

<b>Acizi si baze</b>						
Acid formic 5%	3	3	3	2	3	3
Acid acetic 5%	2	2	2	2	2	2
Acid fosforic 5%	1	1	1	1	1	1
Acid azotic 5%	4	4	4	4	4	4
Acid clorhidric 5%	1	1	1	1	1	1
Acid sulfuric 5%	1	1	1	2	1	1
Amoniac solutie 5%	1	1	1	2	1	1
Potasa caustica 5%	1	1	1	1	1	1
Soda caustica 5%	1	1	1	2	1	1

<b>Rezistenta la alti factori</b>						
Hidroliza <sup>2</sup>	1	1	1	2	2-3	2-3
Ozon	1	1	1	1	1	1
Radiatii UV si conditii mediu	1-2	1-2	1-2	1-2	1-2	1-2
Stabilitate biologica	1	1	1	1	1 <sup>1</sup>	1 <sup>1</sup>

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<b>Uleiuri si unsoare</b>						
Ulei ASTM No. 1	1	1	1	1	1	1
Ulei ASTM No. 3	2	2	1	2	1	1
Ulei mecanisme	2	2	2	-	3	2-3
Uleiuri hidraulice	in functie de componenta/aditivi					
Ulei de motor	1	1	1	-	1	1
Ulei matrite	1	1	1	-	1	1-2
Ulei siliconic	3	1-2	3	-	1-2	2
Unsoare	1-2	1-2	1-2	-	1-2	1-2

<b>Solventi</b>						
Acetona	4	4	4	4	4	4
Diesel/ulei	2	2	2	3	2	2
Combustibili (benzina) motor	3	3	3	4	2-3	3
Glicerina	1	1	1	1	1	1
Glicoli	2	1-2	2	3	2	2
Benzine degresante/hexan	2	1	2	1-2	1	1
Metanol	4	3	4	-	2	2-3
Hydrocarburi aromatice	4	4	4	4	4	4

<sup>1</sup> echipat cu fungicid  
<sup>2</sup> 28 zile, 70°C, 95% umiditate relativa

Toate informatiile si datele se bazeaza pe tehnologia si tehnica actuala. Acestea pot fi folosite ca valori de calcul resp de orientare, se supun tolerantelor normale si nu reprezinta caracteristici absolute sigure. Ne rezervam dreptul sa le modificam.

# Chemical Resistance

## Test conditions (drawing on DIN 53428):

Reaction time: 6 weeks at room temperature, except for concentrated acids, bases and solvents: 7 days at room temperature

## Evaluation criteria:

Changes in tensile strength and elongation at tear (dry samples), volume change

## Evaluation levels:

- 1... Excellent resistance (change in properties of <10%)
- 2... Good resistance (change in properties between 10% and 20%)
- 3... Moderate resistance (change in some properties of 20%)
- 4... Not resistance (change in all properties of more than 20%)

	Sylomer®	Sylocryl®	Sylocamp®		Sylomer® FR Special products and combination materials	Sylomer® EK	Sylomer® CT
<b>Water / aqueous solutions</b>							
Water	1	1	1		1	1	1
Ferrous chloride 10%	1	1	1		1	1	1
Sodium carbonate 10%	1	1	1		1	1	1
Sodium chlorate 10%	1	1	1		1	1	1
Sodium chloride 10%	1	1	1		1	1	1
Sodium nitrate 10%	1	1	1		1	1	1
Tensides (various)	1	1	1		1	1	1
Hydrogen peroxide 3%	1	1	1		1	1	1
Concrete slurry	1	1	1		1	1	1

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<b>Acids and Bases</b>							
Formic acid 5%	3	3	3		2	3	3
Acetic acid 5%	2	2	2		2	2	2
Phosphoric acid 5%	1	1	1		1	1	1
Nitric acid 5%	4	4	4		4	4	4
Hydrochloric acid 5%	1	1	1		1	1	1
Sulfuric acid 5%	1	1	1		2	1	1
Ammonia solution 5%	1	1	1		2	1	1
Potassium lye 5%	1	1	1		1	1	1
Soda lye 5%	1	1	1		2	1	1

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<b>Resistance to other factors</b>							
Hydrolysis <sup>2</sup>	1	1	1		2	2-3	2-3
Ozone	1	1	1		1	1	1
UV radiation and weather	1-2	1-2	1-2		1-2	1-2	1-2
Biological stability	1	1	1		1	1 <sup>1</sup>	1 <sup>1</sup>

	Sylomer®	Sylocryl®	Sylocamp®		Sylomer® FR Special products and combination materials	Sylomer® EK	Sylomer® CT
<b>Oil and Fats</b>							
ASTM Oil No. 1	1	1	1		1	1	1
ASTM Oil No. 3	2	2	1		2	1	1
Drilling oil	2	2	2		-	3	2-3
Hydraulic oils	depending on composition/additives						
Motor oil	1	1	1		-	1	1
Forming oil	1	1	1		-	1	1-2
Flange lubricant	3	1-2	3		-	1-2	2
Point grease	1-2	1-2	1-2		-	1-2	1-2

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<b>Solvents</b>							
Acetone	4	4	4		4	4	4
Diesel/heating oil	2	2	2		3	2	2
Motor gasoline/petrole	3	3	3		4	2-3	3
Glycerin	1	1	1		1	1	1
Glycols	2	1-2	2		3	2	2
Cleaning benzine/hexan	2	1	2		1-2	1	1
Methanol	4	3	4		-	2	2-3
Aromatic hydrocarbons	4	4	4		4	4	4

<sup>1</sup> fungicide equipped  
<sup>2</sup> 28 days, 70 °C, 95% relative humidity

All information and data is based on our current knowledge. The data can be applied for calculations and as guidelines, are subject to typical manufacturing tolerances, and are not guaranteed. We reserve the right to amend the data.