

### 5.3 Chemical resistance (Kimyasal Direnç)

The details given in the following Tables have been acquired and gathered from our own tests, from the recommendations of the suppliers of our basic materials , as well as from reports of customers' experiences.

In spite of this,these details can only suffice to give a general picture. they are not directly applicable to all working conditions.

Among the various factors applicable to seals and moulded parts , chemical resistance of course plays a very important role although it is only one factor in the overall operating conditions. When choosing the Laspar material and the shape of the sealing element , some additional factors should also be taken into consideration :

- revolutions/min. and stroke length,
- piston velocity with axially moving parts,
- static or dynamic strain ,
- nature of the surface of metallic parts,
- material type of the machine parts to be sealed.

If no special recommendation is given in the Tables, then normal commercial purity , concentration , and room temperature is to be presumed for the relevant medium. In case of doubt, especially for untested or new applications , we recommend that you consult us so that special investigations can be carried out as required.

The elastomers set out in the Tables are given with their chemical names as well as with the abbreviated Codes prescribed in ASTM 1418-80.

Chemical names , common names , or trade names are used for the media.

Aşağıdaki Tablolarda verilen detaylar tedarikçilerin önerileri ile edinilen, müşterilerin test raporlarının dan ve laboratuvarımızdaki testlerimizden elde edilmiştir.

Buna rağmen, bu ayrıntılar sadece genel bir yorum oluşturmak için yeterli olabilir. Çalışma koşullarına doğrudan uygulanabilir değildir.

Genel çalışma koşulları sadece bir faktördür. Contalar ve kalıplanmış parçalar için geçerlidir, Çeşitli faktörler arasındaki kimyasal direnç çok önemli bir rol oynar. Malzeme seçiminde ek faktörler de dikkate alınmalıdır:

- revolutions / dak. ve strok uzunluğu,
- eksenel hareketli parçalar ile -piston hız,
- Statik veya dinamik gerilme,
- Metal parçaların yüzeyinin kaplama özelliği,
- Makine parçalarının malzeme türü.

Tablolardaki veriler normal şartlar altında yapılan uygulamalardır. Özellikle denenmemiş ya da yeni uygulamalar için oluşan sorunlarınızdaki araştırmaların yapılabilirliği için bize danışmanızı öneririz.

Tablolarda belirtilen elastomerler kimyasal isimleri yanı sıra, ASTM D 1418-80 öngörülen kısaltılmış Kodları ile verilmiştir.

Kimyasal isimleri, ortak adları veya ticari adları güncel adları ile kullanılmıştır.



<b>RUBBER COUMPOUND ( KAUCUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Alum, aqueous (Sulu Alüminyum)	100	A	A	A	E	D	D	A	A	E	C	A	A	A	A	A
Aluminium sulphate , aqueous (Alüminyum sülfat, sulu)	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Aluminium sulphate , aqueous (Alüminyum sülfat, sulu)	100	A	A	B	E	D	D	C	A	C	B	A	A	A	A	A
Ammonia , 100% (Amonyak,% 100)	20	B	B	E	E	E	E	C	B	C	A	A	A	A	A	A
Ammonia , aqueous (Amonyak, sulu)	40	A	A	E	C	B	B	C	A	C	A	A	A	A	A	A
Ammonium acetate , aqueous (Amonyum asetat, sulu)	60	A	A	B	E	D	D	C	A	C	A	A	A	A	A	A
Ammonium carbonate (Amonyum karbonat)	60	A	A	B	E	D	D	C	A	C	A	A	A	A	A	A
Ammonium chloride , aqueous (Amonyum klorür, sulu)	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Ammonium fluoride , aqueous (Amonyum florür, sulu)	20	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Ammonium fluoride , aqueous (Amonyum florür, sulu)	100	A	A	B	E	D	D	C	A	E	C	A	A	A	A	A
Ammonium nitrate , aqueous (Amonyum nitrat, sulu)	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Ammonium nitrate , aqueous (Amonyum nitrat, sulu)	100	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Ammonium phosphate , aqueous (Amonyum fosfat, sulu)	60	A	A	B	E	D	D	C	A	C	A	A	A	A	A	A
Ammonium sulphate (Amonyum sülfat)	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Ammonium sulphate (Amonyum sülfat)	100	A	A	B	E	D	D	C	A	C	C	A	A	A	A	A
Ammonium sulphate, aqueous (Amonyum sülfat, sulu)	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Ammonium sulphate, aqueous (Amonyum sülfat, sulu)	100	B	B	B	E	D	D	C	A	C	C	B	A	A	A	A
Amyl acetate (Amil asetat)	20	C	C	E	E	E	E	C	A	E	A	C	A	A	D	A
Amyl alcohol (Amil alkol)	60	B	B	B	E	D	D	C	A	C	A	A	A	A	A	A
Aniline (Anilin)	60	C	C	C	E	C	C	C	A	C	C	C	E	E	E	A
Aniline hydrochloride (Anilin hidroklorür)	20	B	B	B	E	B	D	A	A	C	C	C	B	B	B	A
Aniline hydrochloride (Anilin hidroklorür)	100	C	C	D	E	E	E	E	A	C	C	C	E	E	E	A
Anisole	20	C	C	C	E	E	E	E	A	E	C	C	E	E	E	A
Anthraquinone sulphonic acid , aqueous (Antrakinon sülfonik asit, sulu)	30	B	B	E	E	E	E	E	A	C	A	A	A	A	A	A
Antifreeze (motor vehicle) (Antifriz (motorlu taşıt) )	60	A	A	A	E	A	A	A	A	C	A	A	A	A	A	A
Antimony chloride , aqueous (Antimon klorür, sulu)	20	A	A	A	A	A	A	A	A	E	A	A	A	A	A	A
Antimony trichloride , anhydrous (Antimon triklorür, susuz)	60	A	A	B	E	E	E	E	A	E	A	A	A	A	A	A
Aqua regia	20	C	C	C	C	C	C	C	B	C	C	C	C	C	C	A
Arsenic acid , aqueous (Arsenik asit, sulu)	60	A	A	B	D	D	D	A	A	C	A	A	A	A	A	A
Arsenic acid , aqueous (Arsenik asit, sulu)	100	A	A	B	E	D	D	C	A	E	C	A	A	A	A	A
Asphalt (Asfalt)	100	E	E	E		D	E	E	D	A	E	E	E	E	E	A
ASTM fuel A (ASTM yakıt A)	60	A	A	B	B	C	A	A	A	A	C	C	C	C	B	A
ASTM fuel B (ASTM yakıt B)	60	B	B	C	C	C	A	A	A	C	C	C	C	C	C	A



<b>RUBBER COUMPOUND ( KAUCUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Butanol , aqueous (Butanol, sulu)	60	C	C	B	E	D	D	E	A	C	A	A	A	A	A	A
Butter (Tereyağı)	20	A	A	A	D	A	A	A	A	A	E	E	E	E	E	A
Butter (Tereyağı)	80	A	A	B	D	D	D	A	A	D	C	C	E	E	E	A
Butyl acetate (Butil asetat)	20	C	C	C	E	E	E	C	A	E	B	C	B	B	C	A
Butyl alcohol (Butil alkol)	60	C	C	B	E	D	D	E	A	C	A	A	A	A	A	A
Butyl Phenol (Butil fenol)	20	C	C	C	C	C	E	B	A	C	C	C	C	C	C	A
Butylene glycol (Butilen glikol)	60	A	A	A	E	A	A	B	A	A	A	A	A	A	A	A
Butylene, liquid (Etilen, sıvı)	20	A	A	B	D	D	A	A	A	A	C	C	E	E	E	A
Butynediol (Butindiol)	20	A	A	B	E	D	D	B	B	A	A	A	A	A	A	A
Butyraldehyde (Bütiraldehit)	20	E	E	E	E	E	E	E	B	E	B	B	B	B	B	A
Butyric acid , aqueous (Butirik asit, sulu)	20	A	A	B	E	D	D	A	A	D	C	D	D	D	D	A
Calcium bisulphite , aqueous (Kalsiyum bisülfıt, sulu)	20	A	A	A	E	D	D	A	A	A	A	A	A	A	A	A
Calcium chloride , aqueous (Kalsiyum klorür, sulu)	100	A	A	A	E	A	A	A	A	C	C	A	A	A	A	A
Calcium hydroxide , aqueous (Kalsiyum hidroksit, sulu)	20	A	A	A	E	A	A	A	A	C	A	A	A	A	A	A
Calcium hypochlorite , aqueous (Kalsiyum hipoklorit, sulu)	60	C	C	B	C	E	E	B	A	C	C	C	A	A	A	A
Calcium nitrate , aqueous (Kalsiyum nitrat, sulu)	40	A	A	A	E	A	A	A	A	E	A	A	A	A	A	A
Calcium phosphate , aqueous (Kalsiyum fosfat, sulu)	20	A	A	A	E	A	A	A	A	D	A	A	A	A	A	A
Camphor (Kâfur)	20	A	A	B	E	E	E	B	A	E	C	C	C	C	C	A
Camphorated oil (Kâfur yağı)	20	A	B	C	E	E	E	B	A	E	C	C	C	C	B	A
Carbolineum (Karbolineum)	80	C	C	C	C	C	A	A	A	A	C	C	C	C	C	A
Carbolineum (Karbolineum)	60	E	E	E	E	E	D	D	A	E	E	E	B	B	B	A
Carbon dioxide , dry (Karbon dioksit, kuru)	60	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A
Carbon disulphide (Karbon disülfür)	20	C	C	C	E	C	E	A	A	C	C	C	C	C	B	A
Carbon monoxide , dry (Karbon monoksit, kuru)	60	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbon monoxide , moist (Karbon monoksit, nemli)	20	A	A	A	A	A	A	A	A	E	A	A	A	A	A	A
Carbon tetrachloride (Karbon tetraklorür)	60	C	C	C	E	E	E	A	A	E	C	C	C	C	C	A
Caustic potash , 50% (Kostik potas, % 50)	60	B	B	B	C	C	C	C	B	C	B	B	A	A	A	A
Caustic soda (Kostik soda)	20	B	B	B	C	C	C	C	A	E	B	B	A	A	A	A
Cellosolve (Selosolv)	20	E	E	E	E	E	E	E	D	E	E	E	B	B	B	A
Chloral hydrate , aqueous (Kloralhidrat, sulu)	60	C	C	C	E	E	E	B	A	E	C	C	B	B	B	A
Chloramine , aqueous (Kloramin, sulu)	20	A	A	A	D	D	D	E	B	D	A	A	A	A	A	A
Chlorethanol (Kloroetanol)	60	C	C	C	E	E	E	C	B	E	C	C	B	B	B	A
Chloric acid , aqueous (Klorik asit, sulu)	80	C	C	C	E	E	E	B	A	E	C	C	B	B	B	A

<b>RUBBER COMPOUND ( KAUCUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Chloride of lime , aqueous (Kireç klorür, sulu)	60	C	C	C	E	E	E	A	A	C	C	C	A	A	A	A
Chlorine , dry gaseous (Klor, kuru gaz)	20	C	C	C	E	D	D	A	A	D	C	C	A	A	A	A
Chlorine , liquid (Klor, sıvı)	20	C	C	C	E	E	E	A	A	E	C	C	A	A	A	A
Chlorine , moist gaseous (Klor, nemli gaz)	20	C	C	C	E	E	E	A	A	E	C	C	A	A	A	A
Chlorine water , saturated (Klor suya doymuş)	20	C	C	C	E	E	E	A	A	E	C	C	A	B	A	A
Chlorobenzene (Klorobenzen)	20	C	C	C	C	C	C	B	B	D	C	C	C	C	C	A
Chlorobromomethane	20	E	E	E	E	E	B	B	B	E	E	E	B	B	B	A
Chloroform (Kloroform)	20	C	C	C	E	E	E	B	A	C	C	C	C	C	C	A
Chlorsulphonic acid (Klorsülfonik asit)	20	C	C	C	C	C	C	E	D	E	C	C	C	C	C	A
Chromic acid , aqueous (Kromik asit, sulu)	60	C	C	C	E	E	E	A	A	E	C	C	D	D	A	A
Chromic acid / sulphuric acid / water50/15/35% (Kromik asit / sülfürik asit / su % 50/15 / 35)	40	C	C	C	E	E	E	A	A	E	C	C	D	D	A	A
Citric acid , aqueous (Sitrik asit, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Clophen T 64	100	C	C	C	D	B	D	A	A	C	C	C	E	E	E	A
Clophen-a Types	100	C	C	C	D	A	A	A	A	C	C	C	E	E	E	A
Coconut fat (Hindistan cevizi yağı)	80	A	A	B	A	A	A	A	A	A	C	C	C	C	C	A
Coconut fatty alcohol (Hindistan cevizi yağlı alkol)	20	A	A	A	D	D	D	A	A	E	B	B	B	B	B	A
Coconut oil (Hindistancevizi yağı)	60	A	A	B	A	A	A	A	A	A	C	C	C	C	C	A
Coconut oil (Hindistancevizi yağı)	80	A	A	B	D	D	D	A	A	D	C	C	E	E	E	A
Cod-liver oil	20	A	A	A	A	A	A	A	A	A	B	B	B	B	B	A
Coking-oven gas	80	C	C	C	E	D	D	A	A	E	C	C	C	C	C	A
Copper Fluoride , aqueous (Bakır Florür, sulu)	50	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Copper(I) chloride , aqueous (Bakır (I) klorür, sulu)	20	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A
Copper nitrate , aqueous (Bakır nitrat sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Copper sulphate , aqueous (Bakır sülfat, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Cottonseed oil (Pamuk yağı)	20	A	A	B	D	D	D	A	A	A	B	B	B	B	B	A
Cresol, aqueous (Kresol, sulu)	45	C	C	C	E	E	E	A	A	A	C	C	C	C	C	A
Crotonaldehyde (Krotonaldehit)	20	E	E	E	E	E	E	C	B	D	B	B	A	A	A	A
Cyclohexane (Sikloheksan)	20	A	A	C	B	B	B	A	A	A	C	C	C	C	E	A
Cyclohexanol (Sikloheksanol)	20	A	A	C	E	E	B	E	A	A	C	C	C	C	C	A
Cyclohexanone (Sikloheksanon)	20	C	C	C	E	E	E	E	A	E	C	C	C	C	C	A
Cyclohexylamine (Sikloheksilamin)	20	C	C	C	E	E	E	C	B	E	C	C	C	C	C	A
Decahydronaphthalene (Decalin) (Dekahidronaftalin (dekalin) )	20	C	C	C	B	E	E	B	B	E	C	C	C	C	C	A
Decahydronaphthalene (Decalin) ( Dekahidronaftalin (dekalin) )	60	C	C	C	B	E	E	B	B	E	C	C	C	C	C	A

<b>RUBBER COUMPOUND ( KAUCUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Desmodur T (Desmodür T)	20	C	C	C	C	E	E	E	B	B	C	C	C	C	C	A
Desmophen 2000 (Desmophen 2000)	80	A	A	D	D	D	D	D	D	E	D	A	D	D	D	A
Detergent , Synthetic (Deterjan, Sentetik)	60	A	A	B	C	D	D	A	A	D	A	A	A	A	A	A
Detergents (Deterjanlar)	100	A	A	B	E	E	E	B	B	E	C	B	A	A	A	A
Dextrin , aqueous (Dekstrin, sulu)	60	A	A	A	E	A	A	A	A	C	A	A	A	A	A	A
Diacetone alcohol (Diaseton alkol)	20	B	B	B	E	D	D	E	A	D	A	A	A	A	A	A
Dibenzyl ether (Dibenzil eter)	20	C	C	C	E	E	E	C	A	E	C	C	B	B	B	A
Dibutyl ether (Dibutil eter)	20	C	C	C	E	E	E	C	A	E	C	C	B	B	B	A
Dibutyl phthalate (Dibütül ftalat)	20	C	C	C	E	A	A	A	A	A	C	C	D	D	D	A
Dibutyl phthalate (Dibütül ftalat)	60	C	C	C	E	A	A	B	A	D	C	C	D	D	D	A
Dibutyl sebacate (Akabinde dibütül sebasat)	60	C	C	C	E	B	B	E	B	D	C	C	C	C	C	A
Dichloracetic acid (Dichloracetic asit)	60	C	C	C	E	E	E	C	B	C	C	C	A	A	A	A
Dichlorethane (Dikloroetan)	20	C	C	C	C	C	D	B	B	C	C	C	C	C	E	A
Dichlorethylene (Dichlorethylene)	20	C	C	C	E	E	E	B	B	E	C	C	E	E	E	A
Dichlorobenzene (Dichlorobenzene)	20	C	C	C	E	E	B	A	A	E	C	C	C	C	C	A
Dichlorobutylene (Dichlorobutylene)	20	C	C	C	E	E	E	B	A	E	C	C	C	C	C	A
Dichloromethane (Diklorometan)	20	C	C	C	C	C	E	A	A	C	C	C	C	C	C	A
Diesel fuel (Dizel yakıt)	60	A	B	B	B	B	A	A	A	B	C	C	C	C	C	A
Diethyl ether (Dietil eter)	20	C	C	C	E	E	E	C	A	E	C	C	C	C	C	A
Diethyl sebacate (Dietil sebakat)	20	C	C	C	E	E	E	B	B	E	C	C	B	B	B	A
Diethylamine (Dietilamin)	20	B	B	C	E	E	E	C	B	E	C	C	A	A	A	A
Diethylene glycol (Dietilen glikol)	20	A	A	A	E	A	A	A	A	E	A	A	A	A	A	A
Diglycolic acid , aqueous (Diglikolik asit, sulu)	60	B	B	B	E	D	D	A	A	E	A	A	A	A	A	A
Dihexyl phthalate (Diheksil ftalat)	60	C	C	C	E	E	E	C	B	E	C	C	E	E	C	A
Diisobutyl ketone (Diizobütül keton)	60	C	C	C	E	E	E	C	B	E	B	C	A	A	D	A
Dimethyl ether (Dimetil eter)	20	C	C	C	E	E	E	C	B	E	C	C	A	A	A	A
Dimethylamine (Dimethylamine)	20	C	C	C	E	E	E	C	B	E	C	C	A	A	A	A
Dimethylformamide (Dimetilformamid)	60	C	C	C	D	C	D	C	B	C	B	C	B	B	B	A
Dinonyl phthalate (Dinonin ftalat)	30	C	C	C	E	E	E	C	B	E	C	C	E	E	C	A
Diocetyl phthalate (Dioktil ftalat)	60	C	C	C	E	E	E	C	B	E	C	C	E	E	C	A
Diocetyl sebacate (Diocetyl sebakat)	60	C	C	C	E	E	E	C	B	E	C	C	E	E	E	A
Dioxane (Dioksan)	60	C	C	C	E	E	E	C	D	E	B	B	B	B	B	A
Dipentene (Dipenten)	20	B	B	C	D	D	D	A	A	D	C	C	C	C	C	A

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Diphenyl (Diphenyl)	20	C	C	C	E	E	E	A	A	D	C	C	C	C	C	A
Diphenyl oxide (Diphenyl oksit)	100	E	E	E	E	E	E	E	D	E	E	E	E	E	E	A
Engine oils (Motor yağları)	100	A	A	B	A	B	A	A	A	B	C	C	C	C	C	A
Epichlorhydrin (Epichlorhydrin)	20	E	E	E	E	E	E	C	D	E	E	E	B	E	E	A
Essential oils (Uçucu yağlar)	20	C	C	C	E	E	E	B	A	E	C	C	C	C	C	A
Ethane (Etan)	20	A	A	B	A	B	A	A	A	C	C	C	C	C	C	A
Ethanol (Etanol)	20	A	A	A	E	A	D	F	A	B	A	A	A	A	A	A
Ethanol (Etanol)	80	C	C	C	E	D	D	C	A	C	A	A	A	A	A	A
Ethanol with acetic acid (fermentation mixture) (Asetik asit Etanol (fermentasyon karışımı) )	20	C	C	B	E	E	E	C	A	E	A	A	A	A	A	A
Ethanol with acetic acid (fermentation mixture) (Asetik asit Etanol (fermentasyon karışımı) )	60	C	C	C	E	E	E	C	A	E	A	A	A	A	A	A
Ethyl acetate (Etil asetat)	60	C	C	C	E	E	E	C	B	C	C	C	C	C	C	A
Ethyl acrylate (Etil akrilat)	20	C	C	E	C	C	C	C	B	E	E	E	D	B	E	A
Ethyl benzene (Etil benzen)	20	C	C	C	C	C	B	B	A	D	C	C	C	C	C	A
Ethyl chloride (Etil klorür)	20	B	B	B	C	C	E	B	A	B	B	B	B	B	D	A
Ethyl ether (Etil eter)	20	C	C	C	C	C	C	C	A	C	B	C	B	B	C	A
Ethylene chloride (Etilen klorür)	20	B	B	B	C	C	E	B	A	B	B	B	B	B	D	A
Ethylene diamine (Etilen diamin)	60	C	C	C	C	C	E	C	B	C	B	B	A	A	D	A
Ethylene glycol (Etilen Glikol)	100	A	A	B	E	B	D	A	A	C	C	A	A	A	D	A
Ethylene trichloride (Etilen triklorür)	20	E	E	E	E	E	E	D	B	E	E	E	E	E	E	A
Exhaust gases , containing carbon dioxide (Karbon dioksit içeren gazlar)	60	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A
Exhaust gases , containing carbon monoxide (Karbon monoksit içeren egzoz gazlar)	60	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Exhaust gases , containing hydrogen chloride (Hidrojen klorür içeren egzoz gazlar)	60	B	B	A	E	D	D	A	A	E	A	A	A	A	A	A
Exhaust gases , containing hydrogen fluoride traces (Egzoz gazları içeren hidrojen florür izleri)	60	A	A	A	D	D	D	A	A	E	A	A	A	A	A	A
Exhaust gases , containing nitrous gases ,traces (Egzoz gazları içeren azotlu gazlar izleri)	60	D	D	A	C	C	B	A	A	E	C	D	A	B	A	A
Exhaust gases , containing nitrous gases ,traces (Egzoz gazları içeren azotlu gazlar izleri)	80	D	D	A	C	C	B	A	A	E	C	D	A	B	A	A
Exhaust gases , containing sulphur dioxide (Kükürt dioksit içeren egzoz gazları)	60	B	B	B	E	D	D	A	A	E	B	B	A	A	A	A
Exhaust gases , containing sulphuric acid (Sülfürik asit ihtiva eden gazlar)	60	B	B	B	E	D	D	A	A	E	B	B	A	A	A	A
Exhaust gases , containing sulphuric acid (Sülfürik asit ihtiva eden gazlar)	80	C	C	B	E	D	D	A	A	E	B	B	A	A	A	A
FAM test fuels DIN 51 604-A (51 604-A DIN FAM testi yakıtlar)	20	A	B	B	E	C	A	A	A	A	C	C	C	C	C	A
FAM test fuels DIN 51 604-C (51 604-C DIN FAM testi yakıtlar)	20	C	C	C	C	C	B	F	A	C	C	C	C	C	C	A
Fats; mineral ,animal or vegetable (Yağlar; mineral, hayvan ve bitkisel)	80	A	A	B	A	A	A	A	A	A	C	C	C	C	B	A
Fatty acids (Yağ asitleri)	100	B	B	B	E	E	E	A	A	E	E	E	E	E	B	A
Fatty alcohol (Yağ alkolü)	20	A	A	A	A	A	D	A	A	E	B	B	B	B	B	A



<b>RUBBER COUMPOUND ( KAUÇUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Fertiliser salt , aqueous (Gübre tuzu, sulu)	60	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Fish oil (Balık Yağı)	20	A	A	A	A	A	A	A	A	D	B	B	B	B	B	A
Fluorine , dry (Flor, kuru)	60	C	C	E	E	E	E	E	D	E	C	E	E	E	E	A
Fluorobenzene (Fluorobenzen)	20	C	C	C	C	C	C	B	A	E	C	C	C	C	C	A
Fluoro carbon oils (Floro karbon yağlar)	100	D	D	D	D	A	D	D	D	D	D	D	D	D	D	A
Fluorosilicic acid (Florosilisik asit)	100	D	D	D	E	D	D	D	D	E	C	D	D	D	D	A
Fluorosilicic acid , aqueous (Florosilisik asit, sulu)	60	A	A	B	E	E	E	A	A	E	A	A	A	A	A	A
Formaldehyde , aqueous (Formaldehit, sulu)	60	B	B	B	C	D	D	E	B	E	A	A	A	A	A	A
Formamide (Formamid)	60	C	C	C	E	E	E	B	A	E	A	D	A	A	A	A
Formic acid , aqueous (Formik asit, sulu)	60	C	C	C	E	E	E	E	A	C	B	B	B	B	B	A
Freon according to DIN 8962 R 11 (R11 DİN 8962 uyarınca freonlar)	20	A	B	B	E	E	D	B	E	E	E	E	E	E	E	A
Freon according to DIN 8962 R 12 (R12 DİN 8962 uyarınca freonlar)	20	A	B	A	E	E	E	B	E	A	B	B	B	B	B	A
Freon according to DIN 8962 R 13 (R13 DİN 8962 uyarınca freonlar)	20	A	B	A	E	E	E	B	E	B	E	A	A	A	A	A
Freon according to DIN 8962 R 22 (R22 DİN 8962 uyarınca freonlar)	20	C	C	A	E	E	D	C	E	B	A	A	A	A	A	A
Freon according to DIN 8962 R 113 ( R 113 DIN 8962 uyarınca freonlar)	20	A	B	A	E	E	D	B	E	B	E	E	E	E	E	A
Freon according to DIN 8962 R 114 (R 11 DIN 8962 4 uyarınca freonlar)	20	A	B	A	E	E	D	D	E	A	A	A	A	A	A	A
Freon according to DIN 8962 R 134a (R 134a DIN 8962 uyarınca freonlar)	20	B	B	A	E	E	D	C	C	E	E	E	A	E	E	A
Fruit juice (Meyve suyu)	100	B	B	B	E	A	D	A	A	C	C	A	A	A	A	A
Furane (Furan)	20	E	E	E	E	E	E	C	B	C	E	E	E	E	E	A
Furfural (Furfural)	20	C	C	E	E	E	E	E	B	C	E	E	E	E	E	A
Furfuryl alcohol (Furfuryl alkol)	20	E	E	E	E	E	E	E	B	C	E	E	E	E	E	A
Furnace gas , dry (Fırın gaz, kuru)	60	C	C	B	E	A	A	A	A	E	A	A	A	A	A	A
Gas liquor (Gaz likör)	40	A	A	C	C	C	C	A	A	E	C	C	C	C	C	A
Gas oil (Gaz yağı)	80	A	A	B	A	B	A	A	A	A	C	C	C	C	C	A
Gasohol (Gasohol)	20	C	C	C	C	C	C	F	A	C	C	C	C	C	C	A
Gelatne , aqueous (Gelatne sulu)	40	A	A	B	B	A	A	A	A	E	A	A	A	A	A	A
Glaubers salt , aqueous (sodium sulphate ) (Glaubers tuzu, sulu (sodyum sülfat ) )	20	A	A	B	B	D	D	A	A	E	A	A	A	A	A	A
Glucose , aqueous (Glikoz, sulu)	80	A	A	B	E	A	A	A	A	E	B	A	A	A	A	A
Glue (size) (Tutkal (boyut))	20	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glycerol , aqueous (Gliserol, sıvı)	100	A	A	B	E	A	A	A	A	E	B	A	A	A	A	A
Glycerol chlorhydrin (Gliserol chlorhydrin)	60	C	C	C	E	E	E	E	B	E	B	B	B	B	B	A
Glycine , aqueous 10% (Glisin, sulu% 10)	40	B	B	A	D	D	D	A	A	E	B	B	A	A	B	A
Glycol , aqueous (Glikol, sulu)	100	A	A	B	E	B	D	B	A	C	B	A	A	A	A	A

<b>RUBBER COMPOUND ( KAUCUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Glycol,c acid , aqueous 37% (Glikol, Cı asit, sulu% 37)	20	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Grape suger , aqueous (Üzüm şekeri, sulu)	80	A	A	A	E	A	A	A	A	E	C	A	A	A	A	A
Heating oil , miniral-oil based (Isıtma yağı, miniral-yağ bazlı)	60	A	A	B	A	B	A	A	A	A	C	C	C	C	C	A
Henkel P3 solution (Henkel P3 çözümü)	100	A	A	B	E	D	D	E	A	E	B	A	A	A	A	A
Heptane (Heptan)	60	A	A	B	A	C	A	A	A	A	C	C	C	C	C	A
Hexachlorobutadiene (Hexachlorobutadin )	20	C	C	E	E	E	E	A	A	E	C	C	E	E	E	A
Hexachlorocyclohexane (Heksaklorosikloheksan)	20	E	E	E	E	E	D	A	A	B	C	C	E	E	E	A
Hexaldehyde (Hexaldehyde)	20	C	C	C	E	E	E	E	B	E	C	C	E	E	E	A
Hexane (Hekzan)	60	A	A	B	A	C	A	A	A	A	C	C	C	C	C	A
Hexane triol (Heksan triol)	20	A	A	B	E	A	A	A	A	E	D	D	A	A	A	A
Hexene (Hekzan)	20	B	B	B	A	D	A	A	A	A	C	C	C	C	B	A
Hydraulic fluids , hydraulic oils DIN 51 524 (DIN 51 524 Hydraulic sıvıları, hidrolik yağlar)	80	A	A	B	A	B	A	A	A	A	C	C	C	C	C	A
Hydraulic fluids , oil-in-water emulsions HFA (Hydraulic sıvılar, yağ-ıçinde-su emülsiyonları HFA)	55	A	A	B	E	D	D	A	A	E	C	C	C	C	C	A
Hydraulic fluids , phosphoric acid ester HFD (Hydraulic sıvılar, fosforik asit ester HFD)	80	C	C	C	C	C	C	F	A	C	C	C	F	F	C	A
Hydraulic fluids , polyglycol-water emulsions (Hydraulic sıvılar, poliglikol-su emülsiyonları)	60	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Hydraulic fluids , water-in-oil emulsions HFB (Hydraulic sıvıları, su-ıçinde-yağ emülsiyonları HFB)	60	F	F	B	E	D	D	A	A	E	C	C	C	C	C	A
Hydrazine hydrate (Hidrazin hidrat)	20	B	B	B	E	E	B	E	B	B	C	B	A	A	A	A
Hydrobromic acid , aqueous (Hidrobromik asit, sulu)	60	B	B	B	E	E	E	E	D	C	D	D	A	A	A	A
Hydrobromic acid , concentrated (Konsantre hidrobromik asit)	80	C	C	C	E	E	E	A	A	E	C	C	A	A	A	A
Hydrobromic acid , concentrated (Konsantre hidrobromik asit)	20	C	C	C	E	E	E	A	A	E	B	B	A	A	A	A
Hydrobromic acid , dilute (Hidrobromik asit, seyreltik)	20	A	B	B	E	E	E	A	A	C	A	A	A	A	A	A
Hydrobromic acid , concentrated (Konsantre hidrobromik asit)	20	E	E	E	E	E	E	E	B	E	E	B	B	B	B	A
Hydrogen (Hidrojen)	20	A	A	A	A	A	A	A	A	E	A	A	A	A	A	A
Hydrogen chloride gas (Hidrojen klorit gazı)	60	C	C	C	E	E	E	A	A	E	B	B	A	A	A	A
Hydrogen peroxide , aqueous (Hidrojen peroksit, sulu)	20	C	C	C	E	B	B	A	A	E	C	C	A	A	A	A
Hydrogen sulphide , aqueous (Hidrojen sülfür, sulu)	60	B	B	B	E	E	E	A	A	E	B	A	A	A	A	A
Hydrogen sulphide , dry (Hidrojen sülfür, kuru)	60	B	B	B	E	D	D	A	A	D	B	B	A	A	A	A
Hydroquinone , aqueous (Hidrokinon, sulu)	20	A	A	B	B	D	D	A	A	E	B	B	A	A	A	A
Hydrosulphite , aqueous (Hidrosülfıt, sulu)	40	B	B	B	E	D	D	E	B	E	A	A	A	A	A	A
Hyroxylamine sulphate , aqueous (Hyroxylamine sülfat, sulu)	35	A	A	B	E	A	A	E	B	E	A	A	A	A	A	A
Ink (Mürekkep)	20	A	B	A	A	A	A	B	A	A	A	A	A	A	A	A
Lodine , tincture (İyot, tentürü)	20	A	A	B	E	B	B	A	A	C	A	A	A	A	A	A
Lodoform (İyodoform)	20	E	E	E	E	E	E	A	A	E	E	E	A	A	E	A

RUBBER COUMPOUND ( KAUCUK TİPİ)	C°	NBR	HNBR	CR	ACM	VMQ	FVM	FPM	FFPM	AU	NR	SBR	EPDM	IIR	CSM	PTFE
Iron (III) chloride , aqueous (Demir (III) klorürdür sulu)	40	A	A	A	E	D	D	A	A	D	A	A	A	A	A	A
Isobutanol (İzobütanol)	20	B	B	A	C	A	B	A	A	C	A	A	A	A	A	A
Isooctane (İzooktan)	20	A	A	B	A	B	A	A	A	B	C	C	C	C	C	A
Isophorone (İzoforan)	20	D	D	D	D	D	D	D	B	B	D	D	A	A	D	A
Isopropanol (İzopropanol)	60	B	B	B	C	A	A	B	F	E	A	B	A	A	A	A
Isopropyl acetate (İzopropil asetat)	80	C	C	C	C	C	C	C	B	E	C	C	B	B	B	A
Isopropyl chloride (İzopropil klorid)	20	C	C	C	C	C	B	A	A	C	C	C	C	C	C	A
Isopropyl ether (İzopropil eter)	60	C	C	C	C	C	C	C	A	C	E	C	E	E	E	A
Kerosene (Gaz yağı)	20	A	B	C	A	B	A	A	A	A	C	C	C	C	C	A
Lactam (Laktam)	80	C	C	C	E	E	E	C	B	E	C	C	C	C	C	A
Lactic acid , aqueous (Laktik asit, sulu)	40	A	A	A	E	D	D	A	A	A	A	A	A	A	A	A
Lanolin (wool fat) (yün yağı )	60	A	A	B	A	A	A	A	A	A	B	B	C	C	B	A
Laughing gas (nitrous oxide) (Gülme gazı (azot oksit) )	20	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Lauryl alcohol (Lauril alkolün)	20	A	A	A	D	D	D	A	A	D	B	B	B	B	B	A
Lavender oil (Lavanta yağı)	20	B	B	C	B	E	B	A	A	D	E	E	E	E	E	A
Lead acetate , aqueous (Kurşun asetat, sulu)	60	A	B	B	E	D	D	A	A	C	A	A	A	A	A	A
Lead acetate , aqueous (Kurşun asetat, sulu)	100	A	B	B	E	D	D	C	A	C	C	A	A	A	A	A
Lead nitrate, aqueous (Kurşun nitrat, sulu)	20	A	A	B	D	D	D	A	A	C	A	A	A	A	A	A
Lemon juice, undiluted (Limon suyu, sulandırılmamış)	20	A	A	B	E	A	D	D	A	D	A	A	D	D	D	A
Linoleic acid (Linoleik asit)	20	B	B	E	E	B	D	B	A	D	E	E	E	E	E	A
Linseed oil (Keten tohumu yağı)	60	A	A	A	D	A	D	A	A	B	B	B	B	B	B	A
Liqueurs (Likör)	20	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Lithium bromide , aqueous (Lityum bromid , sulu)	20	A	A	B	E	A	A	A	A	A	A	A	A	A	A	A
Lithium chloride , aqueous (Lityum klorür, sulu)	20	A	A	B	E	A	A	A	A	A	A	A	A	A	A	A
Machine oil , mineral (Makine yağı, mineral)	80	A	A	B	A	B	A	A	A	A	C	C	C	C	C	A
Magnesium chloride , aqueous (Magnezyum klorür, sulu)	100	A	A	B	C	D	D	A	A	E	E	A	A	A	A	A
Magnesium sulphate , aqueous (Magnezyum sülfat, sulu)	100	A	A	B	C	D	D	A	A	E	E	A	A	A	A	A
Maize oil (corn oil) (Maize yağı (mısır yağı))	60	A	A	B	D	D	D	A	A	D	C	C	C	C	E	A
Maleic acid , aqueous (Maleik asit, sulu)	100	A	A	B	E	D	D	A	A	E	C	C	A	A	A	A
Maleic anhydride (Maleik anhidrit )	60	E	E	E	E	E	D	A	A	E	E	E	E	E	E	A
Margarine (Margarin)	80	A	A	B	A	A	A	A	A	A	C	C	C	C	C	A
Marsh gas (methane) (Bataklık gazı (metan) )	20	A	A	A	A	A	A	A	A	D	B	B	B	B	B	A
Menthol (Mentol)	60	C	C	C	E	E	E	B	A	E	C	C	C	C	C	A

<b>RUBBER COUMPOUND ( KAUCUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Mercury (Cıva)	60	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Mercury aslts , aqueous (Cıva aslts , sulu)	60	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Mesityl oxide (Mesitil oksit)	20	D	D	E	E	E	D	D	D	D	E	E	B	B	E	A
Methane (Metan)	20	A	A	A	A	A	A	A	A	D	B	B	B	B	B	A
Methanol (Metanol)	60	B	B	B	E	A	A	F	A	E	A	A	A	A	A	A
Methoxy butanol (Metoksi bütanol)	60	A	A	B	E	D	D	A	A	D	C	C	B	B	B	A
Methyl acrylate (Metil akrilat)	20	C	C	C	C	C	C	C	B	C	C	C	C	C	C	A
Methyl bromide (Metil bromür)	20	C	C	C	C	C	D	A	A	C	C	C	C	C	C	A
Methyl chloride (Metil klorür)	20	C	C	C	E	E	E	B	A	B	C	C	C	C	C	A
Methyl ethyl ketone (Metil etil keton)	20	C	C	C	C	C	C	C	A	C	C	C	B	B	B	A
Methyl isobutyl ketone (Metil izobütül keton)	20	C	C	C	C	C	C	C	B	C	C	C	B	B	C	A
Methyl methacrylate (Metil metakrilat)	20	C	C	C	C	C	C	C	B	C	C	C	C	C	C	A
Methylamine , aqueous (Metilamin, sulu)	20	C	C	E	E	E	E	C	B	E	B	B	A	A	A	A
Methylene chloride (Metilen klorür)	20	C	C	C	C	C	E	A	A	C	C	C	C	C	C	A
Milk (Süt)	20	A	A	A	E	A	A	A	A	A	B	B	B	B	B	A
Milk of lime (Kireç sütü)	80	C	C	B	E	E	E	A	A	E	C	B	D	D	D	A
Mineral oil (Mineral yağ)	100	A	A	C	A	B	A	A	A	B	C	C	C	C	C	A
Mineral water (Maden suyu)	60	A	A	B	E	A	A	A	A	D	A	A	A	A	A	A
Mixed acid I (sulphuric acid/nitric acid/water) (Karışık asit I (sülfürik asit / nitrik asit / su) )	20	C	C	B	C	C	C	A	A	C	C	C	A	A	A	A
Mixed acid II (sulphuric acid/phosphoric acid/water) (Karışık asit II (sülfürik asit / fosforik asit / su) )	40	C	C	C	E	E	E	A	A	E	B	B	A	A	A	A
Molasses (Şeker kamışı)	100	A	A	B	E	D	D	A	A	E	C	C	B	B	B	A
Monobromobenzene (Monobromobenzene )	20	C	C	C	C	C	C	B	A	C	C	C	C	C	C	A
Monochloroacetic acid (Monochloroacetic asit)	60	B	B	B	E	E	E	E	B	C	C	C	A	A	A	A
Monochloroacetic acid, ethyl ester (Monochloroacetic asit, etil ester)	60	C	C	C	C	C	C	B	A	C	C	C	B	B	B	A
Monochloroacetic acid, methyl ester (Monochloroacetic asit, metil ester)	60	C	C	C	C	C	C	B	A	C	C	C	A	A	C	A
Morpholine (Morfolin)	60	C	C	C	E	D	D	E	D	E	C	C	B	B	B	A
Myristyl alcohol (Miristil alkol)	20	A	A	A	A	D	D	A	A	D	A	A	A	A	A	A
n-Propanol (n-Propanol)	60	B	B	B	E	A	A	B	A	C	A	A	A	A	A	A
Naftolen ZD (Naftolen ZD)	20	B	B	C	D	E	D	A	A	E	C	C	C	C	C	A
Naphtha (Neft)	20	C	C	C	B	E	B	A	A	C	E	E	E	E	E	A
Naphthalene (Naftalin)	60	C	C	C	E	E	E	A	A	E	C	C	C	C	C	A
Naphthoic acid (Naftoik asit)	20	B	B	D	E	E	A	A	A	E	E	E	E	E	E	A
Natural gas (Doğal gaz)	20	A	A	A	D	A	C	A	A	B	C	C	E	E	A	A

<b>RUBBER COUMPOUND ( KAUCUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Natural gas , crude (Doğalgaz, ham)	20	A	A	A	A	A	A	A	A	A	B	B	B	B	B	A
Nicel acetate , aqueous (Nikel asetat, sulu)	20	A	A	B	E	D	D	D	B	C	A	A	A	A	A	A
Nicel chloride , aqueous (Nikel klorür, sulu)	20	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Nicel sulphate , aqueous (Nikel sülfat, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Nitric , concentrated (Nitrik, konsantre )	80	C	C	C	E	E	E	C	D	C	C	C	C	C	A	A
Nitric acid , dilute (Nitrik asit, seyreltik)	80	B	B	B	E	B	E	A	A	E	C	B	B	B	A	A
Nitric acid , fuming (Nitrik asit, kokulu)	60	C	C	C	E	E	E	C	D	C	C	C	C	C	C	A
Nitrobenzene (Nitrobenzen)	60	C	C	C	C	C	C	C	B	C	C	C	C	C	C	A
Nitrogen (Azot)	20	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Nitrogen dioxide (Nitrojen dioksit)	20	E	E	E	E	C	E	E	D	E	E	E	C	C	E	A
Nitroglycerine (Nitrogliserin)	20	C	C	E	E	E	E	A	A	E	B	B	A	A	A	A
Nitroglycol , aqueous (Nitroglycol sulu)	20	C	C	B	E	D	D	A	A	D	D	D	A	A	A	A
Nitromethane (Nitrometan)	20	C	C	E	C	C	C	C	B	C	B	B	B	B	B	A
Nitropropane (Nitropropane) (Nitropropan (Nitropropan))	20	C	C	C	C	C	C	C	D	C	B	B	B	B	B	A
Nitrous gases (oxides of nitrogen) (Azotlu gazlar (azot oksitler) )	20	C	C	C	C	C	C	A	A	C	C	C	A	A	A	A
O-Nitrotoluene (O-nitrotolüen)	60	C	C	C	C	C	C	C	D	E	C	C	C	C	C	A
Octane (Oktan)	20	D	D	E	E	E	B	A	A	D	E	E	E	E	E	A
Octyl alcohol (Oktil alkol)	20	B	B	A	E	B	B	A	A	E	B	B	A	A	A	A
Octyl cresol (Oktil kresol)	20	E	E	C	C	C	C	B	B	E	C	C	C	C	C	A
Oil , crude (Petrol, ham)	20	A	B	B	A	B	A	A	A	A	C	C	C	C	B	A
Oleum , 10% (Oleum % 10 )	20	C	C	C	C	C	C	A	A	C	C	C	B	B	B	A
Oleyl alcohol (Oleil alkol)	20	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A
Olive oil (Zeytin yağı)	60	A	A	A	A	A	A	A	A	D	B	B	B	B	B	A
Oxalic acid , aqueous (Oksalik asit, sulu)	100	C	C	C	E	E	E	A	A	E	C	B	A	A	A	A
Ozone (Ozon)	20	E	E	B	B	A	A	A	A	D	E	E	A	B	A	A
Palm kernel fatty acid (Hurma çekirdeği yağlı asit)	60	A	A	A	D	D	D	A	A	D	C	C	C	C	C	A
Palmitic acid (Palmitik asit)	60	B	B	B	D	D	D	A	A	D	C	C	C	C	C	A
Paraffin (Parafin)	60	A	A	A	D	D	D	A	A	D	C	C	C	C	C	A
Paraffin emulsions (Parafin emülsiyonları)	40	A	A	A	A	A	A	A	A	A	C	C	C	C	C	A
Paraffin oil (Parafin yağı)	60	A	A	A	A	A	A	A	A	A	C	C	C	C	C	A
Pectin (Pektin)	20	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Pentachlorodiphenyl (Pentachlorodiphenyl )	60	C	C	C	E	E	E	E	D	E	C	C	C	C	C	A
Pentane (Pentan)	20	A	A	B	D	D	D	A	A	D	C	C	C	C	C	A

RUBBER COUMPOUND ( KAUCUK TİPİ)	C	NBR	HNBR	CR	ACM	VMQ	FVM	FPM	FFPM	AU	NR	SBR	EPDM	IIR	CSM	PTFE
Peracetic acid < 10% (Perasetik asit < % 10)	40	C	C	C	C	C	C	F	A	C	C	C	B	C	C	A
Peracetic acid < 1% (Perasetik asit < % 1)	40	C	C	C	C	C	C	F	A	C	C	C	A	C	C	A
Perchlorethylene (Perkloretilen)	60	C	C	C	E	C	E	A	A	E	C	C	C	C	C	A
Perchloric acid (Perklorik asit)	100	C	C	C	E	E	E	A	A	E	C	C	A	A	A	A
Petrol (Petrol)	60	A	B	B	A	C	A	A	A	A	C	C	C	C	C	A
Petrol/benzene mixture , 50/50% (Benzin / benzen karışımı, 50/50%)	20	C	C	C	C	C	B	A	A	B	C	C	C	C	C	A
Petrol/benzene mixture , 60/40% (Benzin / benzen karışımı, 60/40%)	20	C	C	C	C	C	B	A	A	B	C	C	C	C	C	A
Petrol/benzene mixture , 70/30% (Benzin / benzen karışımı, 70/30%)	20	B	C	C	B	C	A	A	A	A	C	C	C	C	C	A
Petrol/benzene mixture , 80/20% (Benzin / benzen karışımı, 80/20%)	20	B	C	C	B	C	A	A	A	A	C	C	C	C	C	A
Petrol/benzene/ethanol , 50/30/20% (Petrol / benzen / etanol 50/30/20%)	20	C	C	C	C	C	B	B	A	C	C	C	C	C	C	A
Petroleum (Petrol)	60	A	A	B	A	B	A	A	A	A	C	C	C	C	C	A
Petroleum ether (Petrol eteri)	60	A	B	B	A	B	A	A	A	A	C	C	C	C	C	A
Phenol , aqueous , up to 90% (% 90'a kadar fenol, sulu )	80	C	C	C	E	E	E	B	A	E	C	C	C	C	C	A
Phenyl benzene (Fenil benzin)	20	C	C	C	E	E	E	B	A	E	C	C	C	C	C	A
Phenyl ethyl ether (Fenil etil eter)	20	C	C	C	C	C	C	C	B	C	C	C	C	C	C	A
Phenyl hydrazine (Fenil hidrazin)	60	B	B	C	E	E	E	B	A	E	C	C	C	C	C	A
Phenylhydrazine chlorhydrate , aqueous (Fenilhidrazin klorhidrat, sulu)	80	B	B	C	E	E	E	B	B	E	C	C	A	A	B	A
Phosgene (Fosgen)	20	E	E	E	E	E	E	D	D	E	E	E	D	E	D	A
Phosphine (Fosfin)	20	C	C	B	E	D	D	B	B	E	A	D	A	A	A	A
Phosphoric acid , aqueous (Fosforik asit, sulu)	60	C	C	B	E	E	E	A	A	E	B	A	A	A	A	A
Phosphorus oxychloride (Fosfor oksiklorür)	20	C	C	E	E	E	E	D	D	E	E	D	D	E	D	A
Phosphorus trichloride (Fosfor triklorür)	20	C	C	C	E	E	E	B	B	E	A	D	A	A	A	A
Photographic developer (Fotografik geliştirici )	40	A	A	A	E	D	D	A	A	E	A	A	A	A	A	A
Photographic emulsions (Fotografik emülsiyonlar)	20	A	A	A	E	D	D	A	A	E	A	A	A	A	A	A
Photographic fixing baths (Fotografik sabitleme banyoları)	40	A	A	A	E	D	D	A	A	E	A	A	A	A	A	A
Phthalic acid , aqueous (Ftalik asit, sulu)	60	A	A	B	E	D	D	A	A	E	C	D	A	A	A	A
Pickling solution (leather) (Çözültisi (deri) )	20	D	D	D	E	E	E	B	B	E	E	E	B	B	B	A
Picric acid (Pikrik asit)	20	B	B	A	E	E	B	A	A	B	B	B	B	B	B	A
Picric acid , aqueous (Pikrik asit, sulu)	20	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Pine needle oil (Çam yaprağı yağı )	20	B	B	C	E	E	D	A	A	D	C	C	E	C	E	A
Pine needle oil (Çam yaprağı yağı )	60	B	B	C	A	B	A	A	A	A	C	C	C	C	C	A
Pinene (Pinen )	20	B	B	B	E	E	B	A	A	B	E	E	E	E	B	A
Piperidine (Piperidin)	20	E	E	E	E	E	E	E	D	E	E	E	E	E	E	A

RUBBER COUMPOUND ( KAUCUK TİPİ )	C	NBR	HNBR	CR	ACM	VMQ	FVM	FPM	FFPM	AU	NR	SBR	EPDM	IIR	CSM	PTFE
Refrigerant to DIN 8962 R 114 (DIN 8962 R 114 e göre Soğutma maddesi)	20	A	B	A	E	E	D	D	E	A	A	A	A	A	A	A
Refrigerant to DIN 8962 R 134a (DIN 8962 R 134a ya göre Soğutma maddesi)	20	B	B	A	E	E	D	C	C	E	E	E	A	E	E	A
Sagrotan (Sagrotan)	20	B	B	B	E	A	A	A	A	C	A	A	A	A	A	A
Salicylic acid (Salisilik asit)	20	A	A	A	E	E	E	A	A	A	A	A	A	A	A	A
Salt water (Tuzlu su)	20	A	A	A	E	E	A	A	A	E	A	A	A	A	A	A
Sea water (Deniz suyu)	20	A	A	B	E	A	A	A	A	B	A	A	A	A	A	A
Silicic acid , aqueous (Silisik asit, sulu)	60	A	A	B	E	E	E	A	A	E	A	A	A	A	A	A
Silicone grease (Silikon gres)	20	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A
Slicone oil (Slicone yağı )	20	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A
Silver nitrate, aqueous (Gümüş nitrat, sulu )	100	B	B	B	E	D	D	A	A	E	E	B	A	A	A	A
Silver salts , aqueous (Gümüş tuzlar, sulu)	60	B	B	B	E	A	A	A	A	E	B	B	A	A	A	A
Skydrol (Skydrol )	20	C	C	C	C	C	C	C	D	C	C	C	B	D	E	A
Soap solution, aqueous (Sabun çözeltisi, sulu )	20	A	A	B	E	D	D	A	A	A	A	A	A	A	A	A
Soda, aqueous (Soda, sulu)	60	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Sodium benzoate , aqueous (Sodyum benzoat, sulu)	40	A	A	B	E	D	D	A	A	D	A	A	A	A	A	A
Sodium bicarbonate , aqueous (Sodyum bikarbonat, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Sodium bisulphite , aqueous (Sodyum bisüfit sulu)	100	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Sodium chlorate (Sodyum klorat )	20	C	C	C	E	D	D	A	A	E	C	C	A	A	A	A
Sodium chlorite (Sodyum klorit)	100	A	A	B	E	D	D	A	A	E	E	A	A	A	A	A
Sodium hypochlorite , aqueous (Sodyum hipoklorit, sulu)	20	B	B	B	E	D	D	A	A	E	C	C	A	A	A	A
Sodium nitrate , aqueous (Sodyum nitrat , sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Sodium nitrite (Sodyum nitrat)	60	B	B	B	E	D	D	A	A	E	A	A	A	A	A	A
Sodium phosphate , aqueous (Sodyum fosfat, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Sodium silicate , aqueous (Sodyum silikat, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Sodium sulphate , aqueous (Sodyum sülfat, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Sodium sulphide (Sodyum sülfür)	40	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Sodium thiosulphate (Sodyum tiyosülfat)	60	C	C	A	D	D	D	A	A	E	A	A	A	A	A	A
Spermacetı ( İşpermeçet )	20	A	A	B	D	D	D	A	A	D	C	E	C	C	C	A
Spindle oil (İğ yağı)	60	A	A	B	A	A	A	A	A	A	C	C	C	C	C	A
Starch , aqueous ( Nişasta, sulu )	60	A	A	A	E	A	A	A	A	E	A	A	A	A	A	A
Starch , syrup ( Nişasta, şurup )	60	A	A	A	E	D	D	A	A	E	A	A	A	A	A	A
Steam ( Buhar )	130	C	C	C	E	C	C	F	C	C	C	C	A	A	B	A
Stearic acid ( Stearik asit )	60	A	A	B	A	A	A	A	A	A	C	A	A	A	A	A

<b>RUBBER COUMPOUND ( KAUCUK TİPİ)</b>	<b>°C</b>	<b>NBR</b>	<b>HNBR</b>	<b>CR</b>	<b>ACM</b>	<b>VMQ</b>	<b>FVM</b>	<b>FPM</b>	<b>FFPM</b>	<b>AU</b>	<b>NR</b>	<b>SBR</b>	<b>EPDM</b>	<b>IIR</b>	<b>CSM</b>	<b>PTFE</b>
Potash , aqueous (Potasyum, sulu)	40	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Potassium acetate , aqueous (Potasyum asetat, sulu)	20	A	B	B	E	D	D	A	A	B	A	A	A	A	A	A
Potassium bisulphate , aqueous (Potasyum bisülfat, sulu)	40	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Potassium borate , aqueous (Potasyum borat, sulu)	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Potassium Bromate , 10% (Potasyum bromat,% 10 )	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Potassium bromide , aqueous (Potasyum bromür, sulu )	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Potassium carbonate, aqueous (Potasyum karbonat, sulu )	40	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Potassium chlorate, aqueous (Potasyum klorat, sulu)	60	C	C	B	E	D	D	A	A	C	B	B	A	A	A	A
Potassium chloride, aqueous (Potasyum klorür, sulu)	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Potassium chromate, aqueous (Potasyum kromat, sulu)	20	B	B	B	E	D	D	A	A	C	A	A	A	A	A	A
Potassium cyanide, aqueous (Potasyum siyanür, sulu)	40	A	A	B	E	A	A	A	A	D	A	A	A	A	A	A
Potassium cyanide, aqueous (Potasyum siyanür, sulu)	80	B	B	B	E	A	A	A	A	C	C	C	A	A	A	A
Potassium dichromate , aqueous 40 % (Potasyum dikromat, sulu % 40)	20	B	B	B	E	D	D	A	A	E	C	B	A	A	A	A
Potassium iodide , aqueous (Potasyum iyodür, sulu)	60	A	A	B	E	D	D	A	A	C	B	A	A	A	A	A
Potassium nitrate , aqueous (Potasyum nitrat, sulu)	60	A	A	B	E	D	D	A	A	C	B	A	A	A	A	A
Potassium perchlorate, aqueous (Potasyum perklorat, sulu)	80	C	C	B	E	D	D	A	A	E	C	C	A	A	A	A
Potassium permanganate, aqueous (Potasyum permanganat, sulu)	40	C	C	B	E	E	E	A	A	E	C	B	A	A	A	A
Potassium persulphate, aqueous (Potasyum persülfat, sulu)	60	C	C	C	E	E	E	A	A	E	C	B	A	A	A	A
Potassium sulphate, aqueous (Potasyum sülfat, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Propane , liquid,gaseous (Propane sıvı, gaz halinde olan)	20	A	A	A	A	A	A	A	A	A	C	C	E	E	E	A
Propargyl alcohol, aqueous (Propargil alkol, sulu )	60	A	A	A	D	D	D	A	A	E	B	D	A	A	A	A
Propionic acid , aqueous (Propionik asit, sulu)	60	A	A	B	E	E	E	A	A	E	E	D	D	D	D	A
Propylene glycol (Propilen glikol)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Propylene oxide (Propilen oksit)	20	C	C	E	E	E	E	E	B	E	E	E	E	E	E	A
Prussic acid (hydrocyanic acid) ( Prusik asit (hidrosiyamik asit) )	20	D	D	B	E	A	D	D	A	E	D	D	D	A	A	A
Pyridine ( Piridin )	20	C	C	C	C	C	C	C	D	C	C	C	E	E	E	A
Pyrrrole (Pirrol)	20	E	E	E	E	B	B	D	D	E	C	C	C	C	E	A
Rapeseed oil (Kanola yağı )	20	B	B	B	B	E	A	A	A	B	E	E	B	B	B	A
Refrigerant according to DIN 8962 R 11 (DIN 8962 R11 e göre Soğutma maddesi)	20	A	B	B	E	E	D	B	E	E	E	E	E	E	E	A
Refrigerant according to DIN 8962 R 12 (DIN 8962 R12 ye göre Soğutma maddesi)	20	A	B	A	E	E	E	B	E	A	B	B	B	B	B	A
Refrigerant according to DIN 8962 R 13 (DIN 8962 R13 e göre Soğutma maddesi)	20	A	B	A	E	E	E	B	E	B	E	A	A	A	A	A
Refrigerant according to DIN 8962 R 22 (DIN 8962 R22 ye göre Soğutma maddesi)	20	C	C	A	E	E	D	C	E	B	A	A	A	A	A	A
Refrigerant according to DIN 8962 R 113 (DIN 8962 R 113 e göre Soğutma maddesi)	20	A	B	A	E	E	D	B	E	B	E	E	E	E	E	A



RUBBER COUMPOUND ( KAUÇUK TİPİ )	°C	NBR	HNBR	CR	ACM	VMQ	FVM	FPM	FFPM	AU	NR	SBR	EPDM	IIR	CSM	PTFE
Stoddard solvent (Stoddard çözücü)	20	A	A	C	A	E	A	A	A	A	E	E	E	E	C	A
Styrene (Stiren)	20	C	C	C	E	C	E	B	D	E	C	C	C	C	C	A
Succinic acid , aqueous (Süksinik asit, sulu)	60	A	A	B	E	D	D	A	A	C	A	A	A	A	A	A
Sugar syrup (Şeker şurubu)	60	A	A	E	E	D	D	A	A	E	A	D	A	A	A	A
Sulphur (Sülfür)	60	E	E	E	E	D	D	A	A	D	E	E	A	A	A	A
Sulphur chloride (Kükürt klorür )	20	C	C	C	E	E	A	A	A	E	E	E	E	E	B	A
Sulphur dioxide , aqueous ( Sülfür dioksit, sulu )	60	C	C	C	E	E	E	A	A	E	C	B	A	A	A	A
Sulphur dioxide , dry ( Sülfür dioksit, kuru )	80	C	C	C	E	D	D	A	A	E	C	B	A	A	A	A
Sulphur dioxide , liquid ( Sülfür dioksit, sıvı )	60	C	C	C	E	E	E	A	A	E	C	E	A	A	A	A
Sulphur hexafluoride ( Kükürt hekzaflorür )	20	A	A	A	D	A	A	A	A	D	D	A	A	A	A	A
Sulphuric acid , concentraed (Sülfürik asit, Konsantr )	50	C	C	C	E	C	E	A	A	C	C	B	A	A	A	A
Sulphuric acid , dilute (Sülfürik asit, seyreltik)	20	B	B	C	E	E	E	A	A	E	B	B	A	A	A	A
Sulphuryl chloride (Sülfürik klorür)	20	C	C	C	E	E	E	A	A	E	B	B	B	B	A	A
Tallow ( Mum Yağı)	60	A	A	B	D	D	D	A	A	E	C	C	C	C	C	A
Tannic acid (Tanen asit)	60	A	A	B	B	A	A	A	A	E	A	A	A	A	A	A
Tannin (Tanen)	40	B	B	A	E	D	D	A	A	A	A	A	A	A	A	A
Tanning extract (Bronzlaşma özü )	20	A	A	B	B	A	A	A	A	E	A	A	A	A	A	A
Tar (Katran)	20	C	C	C	E	E	E	D	A	E	C	C	C	C	C	A
Tar oil (Tar yağı)	20	C	C	C	E	E	E	D	A	E	C	C	C	C	C	A
Tartaric acid , aqueous (Tartarik asit, sulu)	60	A	A	B	E	A	A	A	A	E	A	A	A	A	A	A
Test media ASTM oil No.1 (Deney ortamı, ASTM yağı No. 1)	100	A	A	A	A	A	A	A	A	A	C	C	C	C	C	A
Test media ASTM oil No.2 (Deney ortamı, ASTM yağı No. 2)	100	A	A	B	A	B	A	A	A	A	C	C	C	C	C	A
Test media ASTM oil No.3 (Deney ortamı, ASTM yağı No. 3)	100	A	B	C	A	C	A	A	A	A	C	C	C	C	C	A
Tetrachlorethane (Tetrakloroetan)	60	C	C	C	E	E	E	B	A	E	C	C	C	C	C	A
Tetrachlorethylene (Triklor etilen)	60	C	C	C	E	E	E	B	A	E	C	C	C	C	C	A
Tetraethyl lead (Tetraetil kurşun)	20	B	B	C	E	E	B	A	A	E	E	E	E	E	C	A
Tetrahydrofuran (Tetrahidrofuran)	20	C	C	C	E	E	E	C	B	E	C	C	C	C	C	A
Tetrahydronaphthalene (tetralin) (Tetrahidronaftalen (tetralin) )	20	C	C	C	E	E	D	A	A	E	C	C	C	C	C	A
Thinonyl chloride ( Thinonyl klorür )	20	C	C	C	E	E	E	A	A	E	B	B	A	A	A	A
Thiophene ( Tiofen )	60	C	C	C	E	E	E	C	D	E	C	C	C	C	C	A
Tin (II) chloride , aqueous (Kalay (II) klorür, sulu )	80	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Titanium tetrachloride (Titanyum tetraklorit )	20	A	A	B	B	B	B	B	A	A	A	A	A	A	A	A
Toluene ( Tolüen )	20	C	C	C	C	C	C	B	A	C	C	C	C	C	C	A

RUBBER COUMPOUND ( KAUCUK TİPİ)	°C	NBR	HNBR	CR	ACM	VMQ	FVM	FPM	FFPM	AU	NR	SBR	EPDM	IIR	CSM	PTFE
Town gas , benzene free (Havagazi, serbest benzin)	20	A	A	B	A	A	A	A	A	A	C	C	C	C	C	A
Transformer oil (Trafo yağı )	60	A	B	C	A	B	A	A	A	A	C	C	C	C	C	A
Transmission fluid , Type A ( Şanzıman yağı, A Tipi )	20	A	A	B	A	B	A	A	A	A	E	E	E	E	B	A
Triacetin (Triasetin)	20	B	B	B	E	E	E	E	D	E	B	C	A	A	B	A
Tributoxyethyl phosphate (Tributoxyethyl fosfat)	20	C	C	C	E	E	E	B	A	E	C	C	C	C	C	A
Tributyl phosphate (Tribütil fosfat)	60	C	C	C	E	E	E	B	A	C	C	C	C	C	C	A
Trichloroacetic acid, aqueous (Trikloroasetik asit, sulu)	60	B	B	C	E	E	E	C	A	E	B	B	B	B	B	A
Trichlorethyl phosphate (Trichlorethyl fosfat)	20	C	C	C	E	E	E	C	D	E	E	E	E	E	E	A
Trichlorethylene (Trikloretilen)	20	C	C	C	E	C	E	B	B	C	C	C	C	C	C	A
Tricresyl phosphate (Triksesil fosfat)	60	C	C	C	E	E	D	B	D	B	C	C	B	B	C	A
Triethanolamine (Triethanolamine )	20	C	C	B	E	E	E	E	D	E	C	D	B	B	B	A
Triethyl aluminium ( Trietil alüminyum )	20	E	E	E	E	E	E	E	B	E	E	E	E	E	E	A
Triethyl borane (Trietil boran )	20	E	E	E	E	E	E	A	A	E	E	E	E	E	E	A
Triglycol (Triglikol)	20	A	A	A	E	D	D	A	A	D	A	A	A	A	A	A
Trimethylol propane , aqueous (Trimetilol propan, sulu)	100	C	C	B	E	D	D	A	A	E	B	D	B	B	B	A
Trinitrotoluene (Trinitrotoluen)	20	E	E	B	E	E	B	B	A	E	E	E	E	E	B	A
Trioctyl phosphate (Trioktil fosfat)	60	C	C	C	E	E	D	B	A	E	C	E	B	B	B	A
Trisodium phosphate (Trisodyum fosfat)	20	A	A	B	E	A	A	A	A	D	A	A	A	A	A	A
Turpentine (Terebentin)	60	B	B	C	D	E	E	A	A	C	C	C	C	C	C	A
Turpentine , oil of (Terebentin ve Yağı)	20	B	B	C	D	E	E	A	A	E	C	C	C	C	C	A
Urea , aqueous (Üre, sulu)	60	A	A	B	E	D	D	A	A	E	A	A	A	A	A	A
Vaseline (Vasalin)	60	A	A	A	A	B	A	A	A	D	C	C	C	C	B	A
Vaseline oil (Vasalin yağı)	60	A	A	A	A	B	A	A	A	D	C	C	C	C	B	A
Vinyl acetate (Vinil asetat)	20	E	E	E	E	E	E	E	B	E	E	E	E	E	E	A
Vinyl chloride , liquid (Vinil klorür, sıvı)	20	E	E	E	E	E	E	E	B	E	E	E	E	E	E	A
Water (Su)	100	A	A	B	C	B	D	A	A	C	B	A	A	A	A	A
Wax alcohol (Mum alkolü)	60	A	B	B	D	D	D	A	A	D	C	E	C	C	C	A
Whisky (Viski)	20	A	A	A	E	A	A	A	A	A	A	A	A	A	A	A
White lye ( Beyaz kül suyu)	100	B	B	B	E	E	E	C	B	E	C	A	A	A	A	A
White oil (Beyaz yağ )	20	A	A	B	A	A	A	A	A	D	E	E	E	E	B	A
White spirit (Beyaz İspirto)	60	A	B	B	A	D	D	A	A	D	C	C	C	C	C	A
Wine (Şarap)	20	A	A	A	D	A	A	A	A	A	A	A	A	A	A	A
Xylamon (wood perservatives)	20	C	C	C	C	E	E	B	A	B	C	C	C	C	C	A

