

MATERIAL DATASHEET

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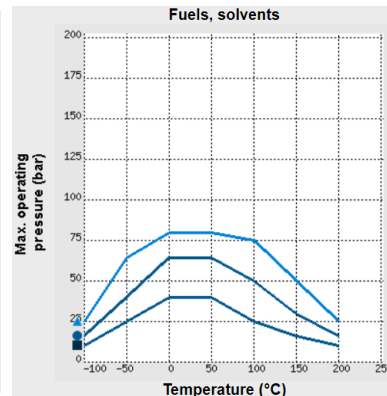
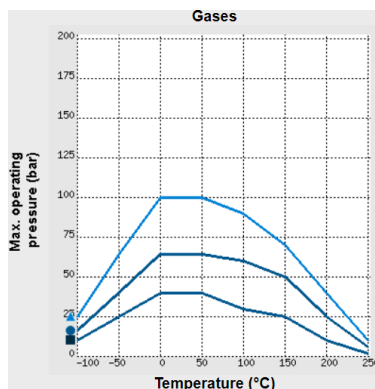
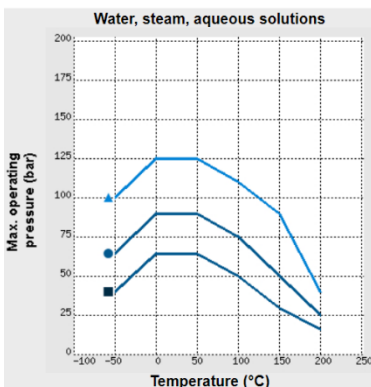
AFM 34

Material Information	
Manufacturer	Dana / Victor Reinz
Composition	Aramid fibers, NBR binder, inorganic fillers
Applications	Engine industry, general purpose
Approvals	DIN DVGW, FDA, WRAS, DIN 30563, Fire Safe (API, BS), Grade X, UVV 61, TA Luft, DNV GL
Colour	Light grey
Thickness (mm)	0,3; 0,5; 0,75; 1,0; 1,5; 2,0; 3,0; 4,0; 5,0
Sheet dimensions (mm)	1 500 x 1 500

Technical Data (2 mm thickness)		
Density, DIN 28090-2 (g/cm ³)	Compressibility, ASTM F36J (%)	Recovery, ASTM F36J (%)
1,8-2,0	5-8	> 55
Tensile strength, DIN 52910 (MPa)	Stress resistance, DIN 52913 (MPa)	Specific leak rate, DIN 3535-6 (mg/s·m)
> 12	36 (50 MPa, 175 °C, 16 h) 25 (50 MPa, 300 °C, 16 h)	0,02
Thickness increase, ASTM F146 (%)	Compression modulus, DIN 28090-2 (%)	Creep relaxation, DIN 28090-2 (%)
< 7 (Oil IRM 903, 150 °C, 5 h) < 10 (ASTM Fuel B, 23 °C, 5 h)	5-8 (ϵ_{KSW}) 9-12 ($\epsilon_{WSW/200\text{ }^\circ\text{C}}$)	3-5 (ϵ_{KRW}) 0,9 ($\epsilon_{WRW/200\text{ }^\circ\text{C}}$)
Peak temperature (°C/°F)	Continuous temperature (°C/°F)	Maximum pressure (bar/psi)
400/662	250/482	150/2 175

pT-diagrams

Thickness ▲ 1 mm ● 2 mm ■ 3 mm



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Recommended Media			
Abietic Acid	Cyclohexylmercaptan	Gear Oil	Phosphonosuccinic Acid
Acetal	Cyclooctadien, - Tetraen	Gelatine	Phosphonosuccinic Acid Ester
Acetaldehyde	Cyclopentane	Generator Gas	Phosphoric Acid
Acetaldehyde Oxime	Cyclopentanol	Gilotherm	Phosphoric Acid Anhydride
Acetamide	Cyclopentanone	Glucose Solution	Phosphoric Acid Monoester
Acetanilide	Decalin	Glue	Phosphoric Acid Sulphochloride
Acetic Acid	Decane	Glutaraldehyde	Phosphorus
Acetic Acid Anhydride	Decanol	Glycerine Stearates	Phosphorus Oxybromide
Acetic Ester	Desalinated Water	Glycerine	Phosphorus Oxychloride
Acetoin	Detergents	Glycidylaldehyde	Phosphorus Pentachloride
Acetone	Diacetone Alcohol	Glycols	Phosphorus Tribromide
Acetone Cyanhydrin	Diacetyl	Halones	Phosphorus Trichloride
Acetonitrile	Diallyl Ether	Heat Transfer Oils	Phthalic Acid
Acetophenone	Diallylamine	Helium	Phthalic Acid Anhydride
Acetyl Chloride	Dibromobenzenes	Heptanes	Phthalic Acid Ester
Acetylene	1,2-Dibromobutan-3-One	Heptenes	Piperazine
Acrolein	1,2-Dibromo-3-Chloropropane	Hexachloroacetone	Piperidine
Acrylamide	Dibromomethane	Hexachlorobenzene	Plaster Sludge
Acrylic Acid	Dibutyl Maleate	Hexachlorobutadiene	Plasticizer
Acrylonitrile	Dibutyl Phthalate	Hexachlorocyclopentadiene	Polyacrylnitrile
Adipic Acid	Dibutyl Tin Chloride	Hexachloropentadiene	Polyamide
Adipic Acid Ester	Dibutyl Tin Oxide	Hexadecyltrichlorosilane	Polybutadiene
Adiponitrile	Dibutylamine	Hexadiene	Polybutylene Terephthalate
Air	Dibutylethanolamine	Hexafluor Acetone Hydrate	Polychlorinated Biphenyls
Alcohols	Dichloroacetic Acid	Hexafluor Propylene	Polyether
Aldehydes	Dichloroacetone	Hexahydrophthalic Acid Anhydride	Polyethylene
Alkyl Aluminium	Dichloroacetyl	Hexaldehyde	Polytribromo Styrene

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Halides	Chloride		
Alkyl Aluminium Hydrides	Dichloroaniline	Hexamethylenediamine	Potassium Dichromate
Alkyl Aluminiums	Dichloroanthraquinone	Hexamethylenediisocyanate	Potassium Hypochlorite
Alkylamines	Dichlorobenzene	Hexamethyleneimin	Potassium Permanganate
Alkylphenols	Dichlorobutane	Hexane	Potassium Persulphate
Alkylsulphonic Acids	Dichlorodiphenylsilane	Hexanedicarbonic Acid	Potassium Salts
Allyl Acetate	Dichloroethane	Hexanols	Propane
Allyl Alcohol	Dichloroisopropyl Ether	Hexenes	Propanols
Allyl Bromide	Dichloromethane	Hot Water	Propionaldehyde
Allyl Chloride	Dichlorophenols	Hydraulic Oil, Biodegradable	Propionic Acid
Allyl Chloroformiate	Dichlorophenyl Isocyanate	Hydraulic Oil, Fully Synthetic	Propionyl Chloride
Allyl Ether	Dichlorophenyl Trichlorosilane	Hydraulic Oil, Glycol Based	Propyl Trichlorosilane
Allyl Glycidylether	Dichlorotoluene	Hydraulic Oil, Mineral Oil Based	Propylene Glycol
Allyl Iodide	Dicycloheptadiene	Hydraulic Oil, Rape Oil Based	Propylene Imine
Allyl Isothiocyanate	Dicyclohexylamine	Hydrazine Hydrate	Propylene Oxide
Allyl Trichlorosilane	Dicyclopentadiene	Hydrochloric Acid	Pyridine
Allylamine	Diesel Oil	Hydrocyanic Acid	Pyrrolidine
Alpha-Methylstyrene	Diethanolamine	Hydrogen	Quinoline
Alpha-Pinene	3, 3-Diethoxypropane	Hydrogen Bromide	Rape Seed Oil
Alum	Diethyl Ether	Hydrogen Chloride	Rape Seed Oil Methyl Ester
Aluminium Salts	Diethyl Sulphate	Hydrogen Peroxide	Refrigerant R 134A
Amines	Diethyl Sulphide	Hydrogen Sulphide	Refrigerants
Amino Sulphonic Acid	Diethyl Thiophosphoryl Chloride	Hydroquinone	Resin Acid
N-Aminoethylpiperazine	Diethylamine	Hydroxyethyl Acrylate	Resin Oil
Aminophenols	N-N-Diethylaniline	Hydroxylamine Sulphate	Rongalit
Ammonia	Diethylbutyl Malonic Acid Ester	4-Hydroxypentamethylpiperidine	Salicylic Acid
Ammonium Salts	Diethyldichlorosilane	4-Hydroxytetramethylpiperidine	Sea Water
Amyl Acetate	Diethylene Diamine	Irm Test Oil 902 Or 903	Sebacic Acid

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Amyl Alcohols	Diethylene Glycol	Iron Pentacarbonyl	Sebacic Acid Ester
Amyl Amines	Diethylene Glycol Ether	Isobutanol	Selenates
Amyl Mercaptan	Diethylene Triamine	Isobutylene	Selenoxy Chloride
Aniline	Di-2-Ethylhexylamine	Isobutyric Acid	Silane A 187
Animal Fats And Oils	Dihydroxyethyl Bisulfide	Isodecyl Alcohol	Silicon Tetrachloride
Anisidine	Diisobutyl Ketone	Isononyl Alcohol	Silicone Oil
Anthranilic Acid	Diisobutyl Phosphate	Isooctane	Silver Salts
Anthraquinone	Diisobutylamine	Isophorone	SO2
Antimony Chlorides	Diisobutylene	Isopropanol	Soap Solution
Antimony Salts	Diisodecyl Phtalate	Isopropyl Acetate	Soda
Antimony Trioxide	Diisopropylamine	Isopropyl Benzene	Sodium Aluminate Lye
Argon	Diisopropylbenzene	Isopropyl Chloride	Sodium Dichromate
Arsenic Chlorides	Diisopropylbenzene Hydroperoxide	Isopropyl Chloropropionate	Sodium Hypochlorite
Arsenic Salts	Diketen	Isopropyl Ether	Sodium Methylate
Arsenic Trioxide	Dilute Acid	Isopropyl Isocyanate	Sodium Salts
Asphalt	Dimethoxy Ethane	Isopropyl Nitrate	Solvesso
Barium Salts	Dimethoxy Methane	Isopropyl Phenol	Soybean Oil
Bayferrox	Dimethyl Acetamide	Isotridecanol	Spindle Oils
Beer	Dimethyl Adipate	Itaconic Acid	Spirit Of Wine
Benzal Acetone	Dimethyl Amine	Jet Fuel	Starch Solution
Benzal Chloride	Dimethyl Aminoaceto Nitrile	Kerosene	Steam
Benzaldehyde	N-N-Dimethyl Aniline	Ketones	Stearic Acid
Benzene Sulphonic Acid	N-N-Dimethyl Carbamoyl Chloride	Lactic Acid Ester	Stearyl Alcohol
Benzine	N-N-Dimethyl Cyclohexylamine	Latex	Styrene
Benzoic Acid	Dimethyl Dichlorosilane	Lauryl Acid	Succinic Acid Ester
Benzol	Dimethyl Diethoxysilane	Lauryl Alcohol	Sugar Solution
Benzoquinone	Dimethyl Disulphide	Lead Alkyls	Sulphanilic Acid
Benzotriazol	Dimethyl Formamide	Lead Salts	Sulphur Dioxide
Benzoyl Chloride	Dimethyl Hydrazines	Levoxin	Sulphur Hexafluoride
Benzyl Alcohol	Dimethyl Malonate	Lighting Gas	Sulphur
Benzyl Bromide	Dimethyl Propylamine	Lignosulphonate	Sulphuric Acid
Benzyl Chloride	Dimethyl Siloxane	Limonene	Sulphurous Acid
Benzyl Chloroformiate	Dimethyl Sulphate	Linseed Oil	Sulphuryl Chloride
Benzyl Iodide	Dimethyl Sulphide	Liqueur	Synthetic Resin Dispersion
Benzyl Phenol	Dimethyl Terephthalate	Liquefied Petroleum Gas	Tall Oil

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Biodiesel	Dinitroaniline	Lithium Alkyls	Tannic Acid
Biogas	Dinitroanthraquinone	Lithium Hydroxide	Tar
Bisphenol	Dinitrobenzenes	Lithium Salts	Tar Oil
Bitumen	Dinitrocresoles	Lubricating Oils	Tartaric Acid
Blast Furnace Gas	Dinitrotoluenes	Machine Oils	Test Oil Irm 902 Or 903
Bleaching Lye	Dinonylphenol	Magnesium Salts	Tetrabromo Methane
Boiler Feed Water	Diocetyl Tin Chloride	Magnesium Stearate	Tetrabutyl Tin
Borax	Diocetyl Tin Oxide	Maleic Acid Ester	Tetrachloro Acetophenone
Boric Acid	Diocetylphthalate	Maleic Anhydride	Tetrachloro Benzene
Boron Alkyls	Dioxan	Malic Acid	Tetrachloro Ethane
Boron Trichloride	Dipentene	Malt	Tetrachloro Ethylene
Brake Fluids	Diphenyl	Marlotherm	Tetrachloro Phenols
Brine	Diphenyl Ether	Mayonnaise	Tetrachloro Pyrimidine
Bromine Water	Diphenyl Methane 4-4'-Diisocyanate	Melamine	Tetradecyl Chloride
Bromine	Diphenyl Phosphate	Mercaptans	Tetrahydro Benzaldehyde
Butadiene	Diphenylamine	Mercaptobenzimidazol	Tetrahydro Furane
Butane	Diphyl	Mercury Salts	Tetrahydro Thiophene
Butanediol	Dipropylamine	Mesityl Oxide	Tetrahydrophthalic Acid Anhydride
Butanedione	Dipropylether	Mesitylene	Tetraisopropyl Titanate
Butanol	Dipropylketone	Methacrylic Acid	Tetraline
Butanone	Di-Tert-Butylphenol	Methane	Tetramethyl Ammonium Hydroxide
Butine	Dithiophosphoric Acid	Methanol	Tetramethyl Lead
Butoxyl	Divinyl Benzene	Methoxy Benzaldehyde	Tetramethyl Silane
Butyl Acetates	Dodecanol	Methoxy Butylacetat	Tetraoctyl Tin
Butyl Acrylate	Dodecyl Mercaptan	Methoxy Ethanol	Tetrapropylene
Butyl Benzene	Dodecyl Thiopropionate	Methoxy Methylisocyanate	Thio Alcohols
Butyl Chlorides	Dodecyl Trichlorosilane	Methyl Acetate	Thioacetic Acid
Butyl Cyclohexyl Chloroformiate	Dodecylbenzene Sulphonic Acid	Methyl Acrylate	Thiodipropionitrile
Butyl Mercaptan	Dyeing Liquor	Methyl Chloride	Thioglycolic Acid
Butyl Phenols	Enersyn Rx 100	Methyl Chloroformiate	Thioglycolic Esters
Butyl Phosphite	Engine Oils	Methyl Chloropyridine	Thioglycols
Butyl Toluenes	Epibromohydrine	Methyl Cyclohexanol	Thionyl Chloride
Butyl Trichlorosilane	Epichlorohydrine	Methyl Dichloroacetate	Thiophene
Butyl Vinyl Ether	Essential Oils	Methyl Dichlorosilane	Thiourea
Butylamines	Ethane	Methyl Ethyl Ketone	Tin Salts

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Butyraldehyde	Ethanol	Methyl Formiate	Tin Tetrachloride
Butyraldoxidim	Ethanolamines	Methyl Glycol	Titanium Dioxide
Butyric Acid	Ether	Methyl Glycol Acetate	Titanium Tetrachloride
Cadmium Salts	Ether Ketones A	Methyl Hydrazine	Toluene
Calcium Hypochlorite	Ethyl Acetate	Methyl Isobutyl Ketone	Toluenesulphonic Acid
Calcium Salts	Ethyl Acetoacetate	Methyl Isocyanate	Toluidine
Calcium Stearate	Ethyl Acrylate	Methyl Isopropenyl Ketone	Tolyl Isocyanate
Caproic Acid	2-Ethyl Aniline	Methyl Methacrylate	Tolyl Triazol
Caprolactam	N-Ethyl Aniline	Methyl Pyridine	Tolylene Diisocyanate
Carbon Dioxide	Ethyl Benzene	Methyl Salicylate	Transformer Oils (Mineral Oil Based)
Carbon Disulphide	Ethyl Bromide	Methyl Tert-Butylether	Triacetone Amine
Carbon Monoxide	Ethyl Bromoacetate	Methyl Uracile	Triallyl Amine
Carbon Tetrachloride	Ethyl Butanol	Methylene Bromide	Triallyl Borate
Castor Oil	Ethyl Butylacetate	Methylene Chloride	Tribromo Methane
Caustic Potash Solution	Ethyl Butylether	Methylol Acrylamide	Tributene
Caustic Soda Lye	Ethyl Butyraldehyde	N-Methylpyrrolidone	Tributyl Phosphate
Cellosolve	Ethyl Butyrate	Milk	Trichlorethylene
Chlorine Bleaching	Ethyl Carbonate	Mineral Oils	Trichloro Benzene
Chlorine	Ethyl Chloride	Mobiltherm	Trichloro Butene
Chloroacetaldehyde	Ethyl Chloroacetate	Molasses	Trichloro Phenol
Chloroacetic Acid	Ethyl Chloroformiate	Monochloro Acetic Acid	Trichloro Silane
Chloroacetic Acid Ester	Ethyl Chloropropionate	Monochloro Acetonitrile	Tricresyl Phosphate
Chloroaniline	Ethyl Crotonate	Monochloro Aniline	Triethanolamine
Chloroanisidine	Ethyl Cyanoacetate	Monochloro Benzene	Triethyl Amine
Chlorobenzaldehyde	Ethyl Dichlorosilane	Monochloro Naphtalene	Triethyl Borate
Chlorobenzene	Ethyl Ether	Mononitro Aniline	Triethyl Phosphate
Chlorobenzoic Acid	Ethyl Glycol	Mononitro Benzene	Triethyl Phosphite
Chlorocresols	Ethyl Glycolacetate	Morpholine	Triethylaluminium
Chlorodiphenyls	2-Ethyl Hexanal	Myristic Alcohol	Triethylene Glycol
Chloroethane	2-Ethyl Hexanoic Acid	Naphta	Trifluoro Ethane
Chloroform	2-Ethyl Hexanol	Naphtalene	Trifluoromethyl Aniline
Chloromethyl	2-Ethyl Hexylacrylate	Naphthylamine	Triglycol Dichloride
3-Chloro-4-Methylphenylisocyanate	2-Ethyl Hexylamine	Napthoic Acid	Triisopropyl Benzene
Chloromethylsulphonylaromates	2-Ethyl Hexylchloroformiate	Napthols	Trimethyl Amine
Chloronitroaniline	Ethyl Isobutyrate	Natural Gas	Trimethyl Propane

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Chloronitrobenzene	Ethyl Mercaptan	Nickel Salts	Trinonyl Phenyl Phosphite
Chloronitrotoluene	Ethyl Methacrylate	Nickel Tetracarbonyl	Trioctyl Phosphate
Chloroparaffins	Ethyl Orthoformate	Nitric Acid	Trioxane
Chloropentanes	Ethyl Oxalate	Nitroaniline	Turbine Oil (Mineral Oil)
Chlorophenols	Ethyl Phenyldichlorosilane	Nitroanthraquinone	Turbinol S 46 (Mineral Oil)
Chloroprene	1-Ethyl Piperidine	Nitrobenzene	Turbofluid 46 Xc (Phosphate Ester)
Chloropropanols	Ethyl Silicate	Nitrochlorobenzene	Turpentine
Chloropyridine	Ethyl Toluidines	Nitrocresols	Tylose
Chlorosilanes	Ethyl Trichlorosilane	Nitrogen	Ultramarine
Chlorosulphonic Acid	N-Ethyl-N-Benzyl Aniline	Nitrogen Oxides	Undecane
Chlorotoluidines	N-Ethyl-N-Benzyltoluidines	Nitromethane	Urea
Chlorotoluols	Ethylene	Nitronaphthalene	Valeraldehyde
Chocolate	Ethylene Chloride	Nitrophenols	Valeroyl Chloride
Choline Chloride Solution	Ethylene Diamine	Nitropropanes	Vanadium Pentoxide
Chrome Salts	Ethylene Glycol	Nitrotoluene	Vanadium Trichloride
Chromyl Chloride	Ethylene Glycoldiethylether	Nitrotrichlorobenzene	Vanadiumoxy Trichloride
Cinnamic Acid	Ethylene Glycolmonobutylether	Nitrous Gases	Vegetable Oils & Fats
Citric Acid	Ethylene Imine	N-N-Diethylaminoethanol	Vestowax A 616
Clophenes	Ethylene Oxide	Nonylphenol	Vinyl Acetate
Cocoa Butter	Ethylene Tetrachloride	Norbornadiene	Vinyl Benzene
Coconut Oil Amine	Exhaust Air	Octadiene	Vinyl Bromide
Collodion Solution	Exhaust Gas	Octane	Vinyl Butyrate
Common Salt	Exhaust Vapours	Octanol	Vinyl Chloride
Compressed Air	Fatty Acids	Octyl Chloride	Vinyl Chloroacetate
Condensate	Fatty Alcohols	Octyl Mercaptan	Vinyl Ethyl Ether
Condensed Milk	Fermentation Gas	Oleic Acid	Vinyl Methyl Ether
Conditioners	Ferrous Salt	Oleine	Vinyl Pyridine
Cooking Oils	Fluoranilines	Oxalic Acid	Vinyl Toluenes
Cooling Water	Fluorbenzene	Oxygen	Vinyl Trichlorosilane
Copper Salts	Fluorotoluene	Palm Oil Methylester	Vinylidene Chloride
Cresols	Formaldehyde	Paraffin	Vinylidene Fluoride
Crotonic Aldehyde	Formamide	Pentaerythritol	Waste Water
Crude Oil	Formanilide	Pentane	Water Glass
Cumene	Formic Acid	Pentane Dicarbonic Acid	Water Vapour
Cumene	Freons	Pentanedione	Water

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Hydroperoxide			
Cyanoacetic Acid	Fruit Juices	Perchloroethylene	Wax
Cyanur Chloride	Fuel B	Perchlormethylmercap tan	White Spirit
Cycloheptane	Fuel Oil	Petroleum Ether	Xylene
Cycloheptene	Fuels	Phenetidine	Xylenols
Cyclohexane	Fumaric Acid	Phenol	Xylidine
Cyclohexanol	Furane	Phenyl Ether	Xylyl Bromide
Cyclohexanone	Furfurol	Phenyl Hydrazine	Zinc Alkyls
Cyclohexenyltrichloros ilane	Furfurylalcohol	Phenylene Diamine	Zinc Salts
Cyclohexylamine	Furfurylamine	Phosgene	Zirconium Tetrachloride
Cyclohexylisocyanate	Gasoline	Phosphonopropionic Acid	