

CHEMICAL RESISTANCE CHART

E.PATENT 1450092

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2 ACID PRODUCTS

- 2 FOR PHARMA APPLICATIONS
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- 3 FOR CHEMICAL AND FUEL APPLICATIONS

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CHART LEGEND

	Excellent service
	Not recommended: may shorten lifespan of the hose
*	The fluid must not stagnate, <u>clean after use</u>
×	Not suitable

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						PRODUCTS			
FOR PHARMA APPLICATIONS			Nitric Acid 1%	Nitric Acid 0,5%	Hydrochloric Acid 200 ppm	Hydrochloric Acid 200 ppm2	Hydrofluoric Acid	Peracetic Acid	Phosphoric Acid
		TEMPERATURE	20°C	80°C	20°C	Max 80°C	20°C	20°C	20°C
		SILICONE				🔺 Max 20 min			
	UND	3G26AU	*	×	*	×	×	*	*
		GMAST1620				🔺 Max 20 min			
	PO	UPE				🔺 Max 20 min			
	NN	PFA							
	Ξυ	PTFE							
		FEP							

FOR FOOD		PRODUCTS									
APPLICATIONS	Nitric Acid 1%	Nitric Acid 0,5%	Hydrochloric Acid 200 ppm	Hydrochloric Acid 200 ppm2	Hydrofluoric Acid	Peracetic Acid	Phosphoric Acid	Acetic Acid 3%			
	TEMPERATURE	20°C	80°C	20°C	Max 80°C	20°C	20°C	20°C	20°C		
	112 BI (NR)	<u></u> *	×	*	×	×	<u></u> *	*	<u></u> *		
	198 SL (NR/NBR)	<u></u> *	×	*	×	×	<u></u> *	*			
Q	SBO CR (CR/NR)	<u></u> *	×	*	×	×	<u></u> *	*			
Ino	NAB 90 (NBR)	<u></u> *	×	*	×	×	<u></u> *	*	<u></u> *		
MP	P190 BI (NBR)	<u></u> *	×	*	×	×	<u></u> *	*	<u></u> *		
CO	140 BI (EPDM)				🔺 Max 20 min						
BE	58 BI (EPDM)				🔺 Max 20 min						
	90 FDA (BIIR)				🔺 Max 20 min						
NER	90 TR (BIIR)				🔺 Max 20 min						
Z	660 BI (EPM)				🔺 Max 20 min						
	SILICONE				🔺 Max 20 min						
	GMAST1620				🔺 Max 20 min						



				PRODUCTS									
AND FUEL				Nitric Acid 65%	Sulforic Acid 10%	Sulforic Acid 96%	Acetic Acid 10%	Hydrochloric Acid 10%	Hydrofluoric Acid	Citric Acid	Formic Acid	Peracetic Acid	Phosphoric Acid
	TEMPI	ERATURE	20°C	20°C	20°C	20°C	20°C	20°C	20°C	20°C	20°C	20°C	20°C
	104 N	(EPDM)		X		×							
	660 1	N (EPM)		X		×							
	160	N (IIR)		×		×							
		JPE		X		×							
	S i	PFA											
	P	TFE											
	3	EP											
Ц		E (NBR)	×	X	×	×	*	×	X			×	×
Ē	5600	FS (NBR)	×	×	×	×	*	X	×			×	×
8	AER C)1 (NBR)	×	X	×	×	*	×	X			×	×
	55 18	0 (NBR)	×	X	×	×	*	×	X			×	×
-	113 0	GPL (CR)	^ *	×	*	×		X	*			×	×
	AER	02 (CR)	*	X	*	×		×	*			×	×
	3G	26AU	X	X	×	×	*	×	×			×	×



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BASIC PRODUCTS

				PRODUCTS							
APPI ICATIONS			Sodium Hydroxide 1%	Sodium Hydroxide 3%	Liquid Ammonia	Calcium Hydroxide 1%	Potassium Hydroxide 1%				
TEMPERATURE		Max 80°C	Max 80°C	20°C Max 80°C		Max 80°C					
		SILICONE		×	×						
ш <i>и</i>		3G26AU		×	×						
		GMAST1620		×	×						
	DO	UPE			<u></u> *						
	⊠0	PFA									
		PTFE									
		FEP									

					PRODUCTS		
			Sodium Hydroxide 1%	Sodium Hydroxide 3%	Liquid Ammonia	Calcium Hydroxide 1%	Potassium Hydroxide 1%
		TEMPERATURE	Max 80°C	Max 80°C	20°C	Max 80°C	Max 80°C
		112 BI (NR)		×	×		
	Δ	198 SL (NR/NBR)		×	×		
	Z	SBO CR (CR/NR)		×	×		
	ŏ	NAB 90 (NBR)		×	×		
	Σ	P190 BI (NBR)		×	×		
	00	140 BI (EPDM)			*		
	ВЕ	58 BI (EPDM)			*		
	I	90 FDA (BIIR)					
	ER	90 TR (BIIR)					
	Z	660 BI (EPM)					
	=	SILICONE		×	×		
		GMAST1620		×	×		



			PROI	DUCTS	
AND FUEL		Sodium Hydroxide	Liquid Ammonia	Calcium Hydroxide	Potassium Hydroxide
ALLECATIONS	TEMPERATURE	Max 80°C	20°C	Max 80°C	Max 80°C
	104 N (EPDM)		<u></u> *		
	660 N (EPM)				
	160 N (IIR)				
	UPE	•			
O	PFA	•			
Δ	PTFE				
0	FEP	•			
BE	UNIE (NBR)	<u>*</u> *	×	*	*
2	5600 FS (NBR)	*	×	*	*
ER	AER 01 (NBR)	*	×	*	*
ZZ	55 180 (NBR)	*	×	*	*
-	113 GPL (CR)		×		
	AER 02 (CR)		×		
	3G26AU	🔺 Max 1%	×	🔺 Max 1%	🔺 Max 1%



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OTHER PRODUCTS

FOR PHARMA APPLICATIONS

		Ethanol 10%	Ethanol 50%	Ethanol 95%	Acetone	Potable water	Sugar	Acetaldehyde	Acetophenone
	TEMPERATURE	Max 80°C	Max 80°C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C
	SILICONE								
шО	3G26AU				×			×	×
UN UN	GMAST1620				×				×
PO	UPE								
NN	PFA								
Ξ U	PTFE								
	FEP								
	INNER TUBE COMPOUND	TEMPERATURE SILICONE 3G26AU GMAST1620 UPE PFA PFA PTFE FEP	Ethanol 10%TEMPERATUREMax 80°CSILICONE●3G26AU●GMAST1620●UPE●PFA●PFFE●FEP●	Ethanol 10%Ethanol 50%TEMPERATUREMax 80°CMax 80°CSILICONEImage: state st	Ethanol 10%Ethanol 50%Ethanol 95%TEMPERATUREMax 80°CMax 80°C20 °CSILICONEImage: Single state	Ethanol 10%Ethanol 50%Ethanol 95%AcetoneTEMPERATUREMax 80°CMax 80°C20 °C20 °CSILICONEImage: Single state	Ethanol 10%Ethanol 50%Ethanol 95%AcetonePotable waterTEMPERATUREMax 80°CMax 80°C20 °C20 °C20 °CSILICONEImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single state3G26AUImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single state3G26AUImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateGMAST1620Image: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateUPEImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateUPEImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateUPEImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateUPEImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateUPEImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateImage: Single stateUPEImage: Single stateImage: Single stateImage: Single stateImage: Single st	Ethanol 10%Ethanol 50%Ethanol 95%AcetonePotable waterSugarTEMPERATUREMax 80°CMax 80°C20 °C20 °C20 °C20 °C20 °CSILICONEImage: Sinter state s	Ethanol Ethanol Ethanol Sugar Acetaldehyde Image: TEMPERATURE Max 80°C Max 80°C 20 °C 20 °C

PRODUCTS

			PRODUCTS									
		Acetylene	Alcohols, Aliphatic	Alcohols, Aromatic	Anyline	White Spirit	Aromatic Hydrocarbons	Benzaldehyde	Butanol			
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C			
	SILICONE	×		×	×	×	×					
ш с	3G26AU				×		*	×				
	GMAST1620			×		×	×					
PO	UPE			×		×	×					
NN N N	PFA											
	PTFE											
	FEP											



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			PRODUCTS								
		Butyl Acetate	Chlorobenzene	Chloroform	Cycloexane	Chlorine	Ethers	Hexane	Diethyl Phthalate		
_	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C		
	SILICONE		×	×		×					
ш с	3G26AU	×	×	×		×	×		×		
	GMAST1620		×	×	×			×			
P R L	UPE		×	×							
NN NN	PFA										
	PTFE										
	FEP										

			PRODUCTS								
		Diethylamine	Dimethylformamide (DMF)	Dioxane	Diphenyl Phthalate	Epichlorohydrin	Ethanolamine	Ethyl Acetate	Ethyl Butyl Amine		
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C		
	SILICONE			×							
шО	3G26AU	×	×	×	×	×	×	×	×		
	GMAST1620		×	×							
PO	UPE										
NN	PFA										
ĽŬ	PTFE										
	FEP										



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FOR PHARMA
APPLICATIONS

					PRO	DUCTS			
		Ethyl Butyl Ketone	Ethyl Chloride	Ethyl Dichloride	Ethyl Ether	Ethyl Methyl Ketone	Ethylene	Ethylene Glycol	Fatty Acids
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C
	SILICONE		×	×	×	×			
ш <u>с</u>	3G26AU	×	×	×	×	×			
INN NN	GMAST1620		×	×	×	×	×		
PO	UPE								
NN	PFA								
	PTFE								
	FEP								

			PRODUCTS							
		Fluorine	n-Heptane	n-Hexane	Hydrogen Peroxide	Ketones	Metanol	Methane	Methyl Acetate	
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	
	SILICONE	×						×	×	
ш О	3G26AU	×			×	×			×	
	GMAST1620	×	×	×		×		×	×	
PO	UPE	×								
NNO	PFA									
ĽŬ	PTFE									
	FEP									



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			PRODUCTS							
		Methyl Acrylate	Methyl Ethyl Ketone (MEK)	Naphtalene	Oxigen	Ozone	Phenol	Polyethylene Glycol	Propane Gas	
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	
	SILICONE	×	×	×			×		×	
шО	3G26AU	×	×	×			×			
	GMAST1620	×	×	×			×		×	
PO	UPE									
NNN	PFA									
	PTFE									
	FEP									



			PRODUCTS							
		Propanol	Steam >120°C	Steam <120°C	Stearic Acid	Styrene	Toluene	Urea	Xylene	
	TEMPERATURE	20 °C	>120°C	<120°C	20 °C	20 °C	20 °C	20 °C	20 °C	
	SILICONE					×	×		×	
ш О	3G26AU		×			×	×	×	×	
	GMAST1620		×		×	×	×		×	
PO	UPE						×		×	
NN	PFA									
≦ ∪	PTFE									
	FEP									



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		PRODUCTS										
FOR FOOD			Ethanol 10%	Ethanol 50%	Ethanol 95%	Acetone	Olive Oil	Non alcoholic drinks	Potable Water	Wine	Beer	
TEMPERATURE		80°C	80°C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C		
		112 BI (NR)		×	×	×	×		×	×	×	
		198 SL (NR/NBR)		×	×	×			×	×	×	
		SBO CR (CR/NR)			×	×	×		×	×	×	
		NAB 90 (NBR)		×	×	×			×	×	×	
	ЧМ	P190 BI (NBR)		×	×	×			×	×	×	
	2	140 BI (EPDM)			×		×		×			
	ᇤ	58 BI (EPDM)			×		×		×			
	2	90 FDA (BIIR)										
		90 TR (BIIR)					×					
	Z	660 BI (EPM)					×					
		GMAST1620				×						
		SILICONE										



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		PRODUCTS										
		Cereals and their derivatives	Chocolate	Sugar	Eggs	Tomato	Milk	Cheese	Yogurt			
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C			
	112 BI (NR)		×		×	×	×	×	×			
	198 SL (NR/NBR)	×				×						
OUND	SBO CR (CR/NR)		×		×		×	×	×			
	NAB 90 (NBR)	×										
MP	P190 BI (NBR)	×										
8	140 BI (EPDM)	×	×		×	×	×	×	×			
BE	58 BI (EPDM)	×	×		×	×	×	×	×			
5	90 FDA (BIIR)	×	×		×	×		×				
ER	90 TR (BIIR)	×	×		×	×	×	×	×			
Z	660 BI (EPM)	×	×		×	×	×	×	×			
-	GMAST1620		×			×			×			
	SILICONE	×				×						





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L		PRODUCTS										
-		Acetaldehyde	Acetone	Acetophenone	Acetylene	Alcohols, Aliphatic	Alcohols, Aromatic	Anyline	White Spirit	Aromatic Hydrocarbons		
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C		
	104 N (EPDM)						×		×	×		
	660 N (EPM)						×		×	×		
	160 N (IIR)						×		×	×		
Z	UPE						×		×	×		
J O C	PFA											
Σ	PTFE											
8	FEP											
BE	UNIE (NBR)	×	×	×				×		*		
	5600 FS (NBR)	×	×	×				×		×		
JER	AER 01 (NBR)	×	×	×				×				
Z	55 180 (NBR)	×	×	×				×				
_	113 GPL (CR)							×		×		
	AER 02 (CR)							×		×		
	3G26AU	×	×	×				×		*		



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						PRODUC	۲S			
		ASTM 1 oil	ASTM 2 oil	ASTM 3 oil	Aviation gasoline	Benzaldehyde	Butanol	Butyl Acetate	Chlorobenzene	Chloroform
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C
	104 N (EPDM)	×	×	×	×				×	×
	660 N (EPM)	×	×	×	×				×	×
-	160 N (IIR)	×	×	×	×				×	×
	UPE			×	×				×	×
0 0	PFA									
Σ	PTFE									
00	FEP									
В	UNIE (NBR)					×		×	×	×
P	5600 FS (NBR)			×	×	×		×	×	×
IER	AER 01 (NBR)					×		×	×	×
Z	55 180 (NBR)					×		×	×	×
	113 GPL (CR)		×	×		×			×	×
	AER 02 (CR)		×	×		×			×	×
	3G26AU			×		×		×	×	×



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						PI	RODUCT	S		
		Cycloexane	Chlorine	Ethers	Hexane	Diesel	Biofuel	Diethyl Phthalate	Diethylamine	Dimethylformamide (DMF)
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C
	104 N (EPDM)	×	×		×	×	×			
	660 N (EPM)	×			×	×	×			
_	160 N (IIR)	×			×	×	×			
Z	UPE					×	×			
0 0	PFA									
Σ	PTFE									
00	FEP									
В	UNIE (NBR)		×	×				×	×	×
2	5600 FS (NBR)		×	×				×	×	×
ER	AER 01 (NBR)		×	×				×	×	×
Z	55 180 (NBR)		×	×				×	×	×
	113 GPL (CR)							×		×
	AER 02 (CR)							×		×
	3G26AU		×	×				×	×	×



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FOR CHEMICAL	
& FUEL	
APPLICATIONS	

					PRO	DUCTS				
		Dioxane	Diphenyl Phthalate	Epichlorohydrin	Ethanolamine	Ethyl Acetate	Ethyl Butyl Amine	Ethyl Butyl Ketone	Ethyl Chloride	Ethyl Dichloride
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C
	104 N (EPDM)								×	×
	660 N (EPM)									
	160 N (IIR)								×	×
Z	UPE									
0 C	PFA									
Σ	PTFE									
8	FEP									
BE	UNIE (NBR)	×	×	×	×	×	×	×	×	×
	5600 FS (NBR)	×	×	×	×	×	×	×	×	×
IER	AER 01 (NBR)	×	×	×	×	×	×	×	×	×
Z	55 180 (NBR)	×	×	×	×	×	×	×	×	×
_	113 GPL (CR)	×	×	×	×	×	×		×	×
	AER 02 (CR)	×	×	×	×	×	×		×	×
	3G26AU	×	×	×	×	×	×	×	×	×



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					PROD	OUCTS			
		Ethyl Ether	Ethyl Methyl Ketone	Ethylene	Ethylene Glycol	Fatty Acids	Fluorine	n-Heptane	n-Hexane
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C
	104 N (EPDM)	×	×	×			×	×	×
	660 N (EPM)			×			×	×	×
	160 N (IIR)	×	×	×			×	×	×
Z	UPE						×		
0 O	PFA								
Σ	PTFE								
00	FEP								
ВШ	UNIE (NBR)	×	×				×		
2	5600 FS (NBR)	×	×				×		
IER	AER 01 (NBR)	×	×				×		
Z	55 180 (NBR)	×	×				×		
	113 GPL (CR)	×	×				×		
	AER 02 (CR)	×	×				×		
	3G26AU	×	×				×		



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					PROD	UCTS			
		Hydrogen peroxide	Jet Fuels (JP1 - JP6)	Kerosene	Ketones	Metanol	Methane	Methyl Acetate	Methyl Acrylate
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C
	104 N (EPDM)		×	×			×		
	660 N (EPM)		×	×			×		
~	160 N (IIR)		×	×			×		
OUND	UPE		×	×					
	PFA								
Σ	PTFE								
8	FEP								
В	UNIE (NBR)	×			×			×	×
2	5600 FS (NBR)	×	×		×			×	×
JER	AER 01 (NBR)	×			×			×	×
ź	55 180 (NBR)	×			×			×	×
_	113 GPL (CR)		×						
	AER 02 (CR)		×						
	3G26AU	×			×			×	×



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X	Not suitable

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		PRODUCTS							
		Methyl Ethyl Ketone (MEK)	Naphtalene	Oxigen	Ozone	Petroleum	Phenol	Polyethylene Glycol	Propane Gas
	TEMPERATURE	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C	20 °C
NNER TUBE COMPOUND	104 N (EPDM)		×			×	×		×
	660 N (EPM)		×			×	×		×
	160 N (IIR)		×			×	×		×
	UPE								
	PFA								
	PTFE								
	FEP								
	UNIE (NBR)	×	×	×	×		×		
	5600 FS (NBR)	×	×	×			×		
	AER 01 (NBR)	×	×	×	×		×		
	55 180 (NBR)	×	×	×	×		×		
_	113 GPL (CR)		×				×		
	AER 02 (CR)		×				×		
	3G26AU	×	×				×		



	Excellent service
	Not recommended: may shorten lifespan of the hose
<u></u> *	The fluid must not stagnate, <u>clean after use</u>
×	Not suitable

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Urea

Toluene

	Propanol	Steam >120°C	Steam <120°C	Stearic Acid
TURE	20 °C	>120°C	<120°C	20 °C
PDM)				
EPM)				
(IIR)				

FOR CHEMICAL & FUEL **APPLICATIONS**

	TEMPERATURE	20 °C	>120°C	<120°C	20 °C				
INNER TUBE COMPOUND	104 N (EPDM)					×	×		×
	660 N (EPM)					×	×		×
	160 N (IIR)					×	×		×
	UPE						×		×
	PFA								
	PTFE								
	FEP								
	UNIE (NBR)					×	×		×
	5600 FS (NBR)					×	×		×
	AER 01 (NBR)					×	×		×
	55 180 (NBR)					×	×		×
	113 GPL (CR)					×	×		×
	AER 02 (CR)					×	×		×
	3G26AU		×			×	×	×	×

PRODUCTS

Styrene



	Excellent service
	Not recommended: may shorten lifespan of the hose
*	The fluid must not stagnate, <u>clean after use</u>
X	Not suitable

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Xylene

Interactive page - click on the data to open each link



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