

DAI-EL Fluid Resistance Guide

Technical Information

***DAIKIN INDUSTRIES, LTD. CHEMICAL
DIV.***

Formulations, curing conditions and physical properties

(Formulation)	G501	G551	G558	G621	G671	G701	G702	G704
Gum	100	100	100	100	100	100	100	100
MT carbon black	20	20		20	20	20		20
SRF carbon black			15				15	
Magnesium oxide(Low activity)	15							
Magnesium oxide(High activity)		3	3	3	3	3	3	3
Calcium hydroxide		6	6	6	6	6	6	6
Cure agent V-3	3							
TAIC								
Perhexa 25B								
(Curing condition)								
Press cure	C	E	D	E	E	E	B	E
Oven cure	C	D	A	D	D	D	C	D
(Physical properties)								
100% Modulus (MPa)	4.4	5.4	2.5	4.4	5.3	5.2	3.4	4.4
Tensile strength (MPa)	18.6	18.6	12.3	16.2	16.5	15.7	17.6	16.2
Elongation (%)	280	230	370	320	220	210	320	250
Hardness (JIS A)	76	73	73	77	71	72	70	72
Tear strength (kN/m)	24.5	20.6	20.6	19.6	20.0	19.6	23.5	21.6
Specific gravity	1.92	1.89	1.89	1.92	1.84	1.85	1.85	1.85

Formulations, curing conditions and physical properties

(Formulation)	G755	G801	G901	G902	G912	G952	LT302	T530
Gum	100	100	100	100	100	100	100	100
MT carbon black		20	20	20	20	20	20	
SRF carbon black	13							
MAF carbon black								
Magnesium oxide(High activity)	3							
Calcium hydroxide	6							
TAIC		4	4	4	4	4	4	
Perhexa 25B		1.5	1.5	1.5	1.5	1.5	1.5	
Stearic acid								
Naugard 445								
(Curing condition)								
Press cure	E	A	A	A	A	A	A	G
Oven cure	D	B	B	B	B	B	B	A
(Physical properties)								
100% Modulus (MPa)	2.5	1.5	3.1	3.0	8.7	2.5	3.4	1.8
Tensile strength (MPa)	16.0	21.6	23.5	22.5	23.5	23.5	20.6	20.0
Elongation (%)	300	480	350	340	180	360	260	580
Hardness (JIS A)	67	68	70	72	75	69	68	63
Tear strength (kN/m)	21.6	20.6	19.6	19.6	17.6	19.6	21.8	25.0
Specific gravity	1.85	1.80	1.87	1.87	1.88	1.84	1.80	1.89

Press cure conditions

A : 10 min. at 160 C
B : 15 min. at 160 C
C : 20 min. at 160 C
D : 45 min. at 160 C
E : 10 min. at 170 C
F : 15 min. at 170 C
G : None

Post cure conditions

A : None
B : 4 hours at 180 C
C : 24 hours at 200 C
D : 24 hours at 230 C

Note

Functional performance tests simulating the actual conditions of use are recommended before final manufacture. Tests are particularly important when contamination from elution or extraction into a chemical solution may be a problem.

The information contained herein is based upon tests believed to be reliable. However, it is offered solely for use, at their discretion, by persons qualified to determine for themselves the suitability of their own products for particular purposes. We cannot guarantee satisfactory results.

Solvent	DAI-EL Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
1,2-Dibromoethane	G-901	40	504	4			
1,2-Dichloro-benzene	G-901	40	504	7			
1,4-Dioxane	G-901	40	504	52			
2-Methyltetrahydrofuran	G-901	40	504	125			
Acetaldehyde	G-901	25	504	94			
Acetamide	G-901	100	70	2	-22	15	0
Acetic Acid Glacial	G-701	25	70	121	-82	-73	-28
		40	70	120			
	G-801	25	70	121			
		40	70	121			
	G-901	25	70	42	-77	-39	-28
		40	70	42			
		40	192	34			
	G-902	40	504	36	-76	-46	-12
		25	70	42			
		40	168	32			
Anhydride	G-701	40	504	30			
		25	70	153			
	G-901	25	70	38	-81	-51	-15
		40	192	49			
		40	504	51			
Not specified Acetone	G-902	25	70	41	-83	-57	-17
	T-530	40	168	21			
	G-901	40	504	152			
	G-902	40	600	164			
Acetophenone	T-530	40	168	64			
	G-901	40	504	20			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Acetylacetone	G-901	40	504	76			
Acrylic Acid	G-901	40	504	21			
Acrylonitrile	G-801	40	168	78			
	G-901	40	168	38			
		40	504	41			
	T-530	40	168	29			
Air Craft Engine Oil							
O-148LCT	G-901	175	480	8			
Ammonia aq.	G-801	40	70	2			
28%	G-901	40	70	2			
		40	240	13			
		40	504	223			
	G-902	40	168	74			
		40	504	321			
	T-530	40	168	2			
Aniline	G-801	40	168	11			
	G-901	40	168	2			
		40	504	4			
		100	70	5	-35	-4	-6
	T-530	40	168	1			
ASTM Oil	G-501	175	70	2	0	30	-2
No. 3	G-558	120	70	0.8	-7	-18	-1
	G-621	150	70	2	0	-3	-3
		175	70	2	-6	-4	-4
	G-701	150	500	4	3	4	-3
		175	70	3	6	7	2
	G-702	150	24	2			
	G-704	175	70	3	-2	1	-2
	G-755	125	70	1	20	7	-2
		175	70	4	3	4	-2
	G-801	40	168	0			
		175	70	2	-13	-2	-2
	G-901	40	168	1			
		175	70	2	-8	8	-5
		175	384	3			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
ASTM Oil							
No. 3	G-902	150	70	2	-11		
		175	70	2	4	7	-2
	G-912	150	70	2	-4		
	LT-302	175	70	3			
	T-530	40	168	1			
Benzaldehyde							
Benzene	G-801	40	168	56			
	G-901	40	168	17			
	T-530	40	168	12			
	G-501	25	8760	18	-40	27	-14
		70	168	25	-50	-13	-18
	G-701	35	70	26			
	G-801	40	70	28			
		40	168	24			
	G-901	40	168	13			
		40	504	13			
	G-902	40	70	10			
	G-952	40	70	20			
	LT-302	40	70	24			
	T-530	40	168	10			
Butyl Acetate							
	T-530	40	168	56			
Butyl Cellosolve							
	G-902	40	600	4			
Butyl Cellosolve Acetate							
	G-902	40	600	32			
Carbon Disulfide							
	G-801	40	168	8			
	G-901	40	168	5			
	T-530	40	168	3			
Chlorine Water = 15% Sodium Chloride AQ Chlorine Saturated Solution							
	G-801	85	360	25			
		85	720	95			
	G-901	85	360	25			
		85	720	24			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Chloroacetic acid							
	G-801	150	70	15			
	G-901	150	70	5			
Chlorobenzene							
	G-801	40	168	15			
	G-901	40	168	7			
		100	70	13	-41	-10	-9
	T-530	40	168	7			
Chloroform							
	G-621	40	70	12	-26	-4	-20
	G-701	35	70	18			
	G-755	40	70	20	-41	-9	-17
	G-801	40	168	19			
	G-901	40	168	15			
		40	504	16			
	LT-302	40	70	20			
	T-530	40	168	12			
Chlorotoluene							
	G-901	40	504	8			
Cutting Oil							
CIMCOOL	G-902	70	96	0		6	-2
CIMCOOL in Water (10%)							
	G-902	70	96	1		6	4
DN Cut HS-1	G-901	130	264	4			
Cyclohexane							
	G-801	40	168	1			
	G-901	40	168	2			
		40	504	4			
	T-530	40	168	1			
Cyclohexylalcohol							
	G-901	40	504	4			
DAIFLOIL							
#10	G-901	130	264	4			
DECALIN							
	G-901	40	504	2			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Diacetone alcohol	G-901	40	504	37			
Diethyl Carbonate	G-902	40	168	77			
		40	504	80			
Diethyl Ether	G-801	40	168	48			
	G-901	25	504	32			
		40	168	28			
	G-902	25	168	31			
		25	504	30			
	T-530	40	168	22			
Diethyl Oxalate	G-901	40	504	56			
Diethylene Carbonate	G-901	40	504	77			
Dimethyl Acetamide	G-902	40	600	151			
Dimethyl Formamide	G-501	70	168	336	-96		
Dimethyl Maleate	G-901	40	504	16			
Dioctyl Phthalate	G-801	40	168	0			
	G-901	40	168	1			
	T-530	40	168	0			
Engine Oil							
SF (Esso Uniro)	G-901	175	480	3			
Showa Shell Helix Premium 5W-30	G-621	150	70	0	-5	1	1
	G-902	150	70	0	0	3	1
Showa Shell Helix SG-10W-30	G-621	150	70	0	-44	-34	2
	G-902	150	70	0	-1	7	0
Ethyl Acetate	G-902	40	168	137			
		40	504	143			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Ethyl Acetoacetate							
	G-901	40	504	40			
Ethyl Alcohol							
	G-621	40	70	1	-15	5	-7
	G-701	35	70	3			
		40	70	4			
	G-704	40	70	4	-35	2	-10
	G-755	40	70	4	-31	-3	-9
	G-801	40	48	2	-15	4	-5
		40	168	9			
	G-901	40	70	1	-14	6	-4
		40	168	3			
		40	504	5			
	G-902	40	70	1	-19	12	-5
	LT-302	40	70	7			
	T-530	40	168	2			
Ethyl Alcohol in Fuel C							
40%	G-551	40	168	16	-37	-8	-11
	G-621	40	168	11	-28	1	-11
	G-671	40	168	23	-48	-26	-10
	G-755	40	168	23	-45	-29	-16
	G-902	40	168	10	-31	-5	-10
	G-952	40	168	15	-28	1	-10
	LT-302	40	168	23	-56	-40	-10
Ethyl Alcohol in Gasoline							
20%	G-704	40	70	16	-45	-13	-10
	G-755	40	70	15	-37	-12	-12
Ethyl Carbitol							
	G-901	100	168	7			
	G-902	40	600	5			
Ethyl Cellosolve							
	G-902	40	600	10			
Ethylbenzene							
	G-901	40	504	8			
Ethylene Diamine							
	G-901	40	504	250			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Ethylene Glycol							
	G-801	40	168	0			
	G-901	40	168	0			
		40	504	3			
		100	70	1	-33	-1	2
		130	240	4			
	T-530	40	168	0			
FAM-A							
	G-621	60	70	14	-34	-3	-14
		115	48	19			
	G-702	24	24	4			
	G-902	60	70	13	-25	-4	-13
FAM-B							
	G-621	50	48	11	-29	14	-14
		60	70	17	-40	8	-15
		115	48	25			
	G-902	50	48	11	-20	4	-10
		60	70	16	-24	0	-13
FAM-B+ Acetone (5%)							
	G-621	50	48	19	-49	-16	-20
	G-902	50	48	18	-42	-15	-15
Formaldehyde							
35%	G-901	40	504	2			
Not specified	G-801	40	168	2			
	G-901	40	168	1			
	T-530	40	168	1			
Formamide							
	G-901	40	504	2			
Formic Acid							
88%	G-901	40	192	1			
		40	504	4			
Not specified	G-901	100	70	7	-25	12	-6
	T-530	40	168	1			
Fuel-B							
	G-701	25	70	2	-15	-2	-2
		40	70	2	-15	-2	-2
	G-704	25	70	2	-12	1	-3
	G-801	40	168	9			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Fuel-B	G-901	40	70	1	-15	5	-4
		40	168	6			
	G-902	40	70	1	-16	7	-5
	LT-302	40	70	8	-20	-6	-4
	T-530	40	168	4			
Fuel-C	G-621	40	48	4			
		40	70	4	-17	2	-13
	G-621	40	168	7	-20	0	-8
	G-671	40	168	13	-39	-24	-5
	G-701	23	70	3	-16	-10	-2
		35	70	3			
		40	48	7			
	G-704	40	70	8	-33	-4	-11
	G-755	40	70	8	-23	-1	-12
		40	168	14	-26	-17	-9
		90	100	22			-14
		90	200	23			-15
		90	500	23			-14
	G-801	90	1000	24			-16
		40	70	9			
		40	168	13			
	G-901	40	168	8			
	G-902	40	70	5	-7	4	-4
		40	168	7	-25	-5	-6
	G-952	40	70	8			
		40	168	10	-25	-3	-5
	LT-302	40	70	14	-35	-17	-7
		40	168	15	-52	-40	-6
	T-530	40	168	5			
Fuel-D	G-558	40	48	5.9	-13	-3	-9
	G-621	40	70	4	-16	-2	-12
	G-704	40	70	5	-17	4	-9
	G-755	24	70	4	-8	2	-3
		40	70	5	-16	3	-9
	G-902	40	70	3	-18	2	-7
	LT-302	40	70	10			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Furfural							
	G-901	40	504	15			
		100	168	18			
Fyrquel							
	G-701	100	70	8	-7	0	3
	G-704	100	70	8	-4	6	-11
	G-901	100	70	1	5	15	-2
		130	264	5			
	G-902	100	70	2	-25	9	-5
Gamma							
	G-901	40	504	24			
Gasoline							
High Octane	G-801	40	168	10			
	G-901	40	168	6			
	T-530	40	168	4			
High Octane (Idemitsu)							
	G-704	40	70	7	-24	-12	-5
	G-755	40	70	6	-20	-11	-6
	G-902	40	70	3	-17	-3	-5
Idemitsu							
	G-704	40	70	3	-27	-4	-3
	G-755	40	70	3	-17	-4	-4
	G-801	40	48	3	-13	8	-6
Gasoline							
Not specified	G-607	40	70	1			
	G-621	40	48	4			
		40	70	2			
	G-701	40	48	5			
		40	70	6	-26	-13	-8
	G-901	40	70	3	-10	5	-5
	G-902	40	70	3	-14	5	-5
Glycerine							
	G-801	40	168	0			
	G-901	40	168	0			
		100	70	0	-13	3	1
	G-912	100	336	1			
	T-530	40	168	0			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Hydrochloric Acid							
35%	G-701	80	70	34			
	G-801	40	168	1			
		80	70	1			
	G-901	40	168	1			
		40	240	2			
		40	504	2			
		80	70	1			
	G-902	70	672	-0.1	-1.8	1.5	1
	T-530	40	168	1			
	G-621	40	70	6			
37%	G-701	80	70	34	19	-4	-13
	G-801	80	70	2	-5	20	-1
	G-901	80	70	1	-6	15	0
	G-902	40	70	0.3			
		80	70	1	-5	14	-2
	G-952	80	72	1.3	-7	11	-1
Hydrofluoric Acid							
50%	G-501	25	8760	4	-26	7	-2
	G-801	40	168	0			
	G-902	40	168	0			
	T-530	40	168	0			
i-Amyl							
	G-901	40	504	157			
i-Octane							
	G-501	40	70	1	-3	27	0
		70	168	3	-26	-16	-3
	G-621	40	70	1	-5	-2	-5
	G-701	35	70	1			
	G-801	40	168	1			
	G-901	40	168	2			
		40	504	4			
	T-530	40	168	1			
i-Propyl Alcohol							
	G-902	40	600	3			
Isophorone							
	G-901	40	504	150			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
JIS Standard Oil							
No. 1	G-621	175	70	1	3	-9	-3
	G-701	150	500	1	-7	-5	0
		175	70	1	-19	-12	-2
	G-755	125	70	0	18	0	-2
		175	70	1	6	6	-1
	G-801	40	168	0			
	G-901	40	168	0			
		175	384	3			
	G-902	150	70	1			
		175	70	1	-3	3	-1
	G-912	150	70	1			
	LT-302	175	70	1			
	T-530	40	168	0			
No.3	G-621	175	70	3	-3	-4	-2
	G-902	175	70	2	-3	5	-2
JP-4	G-801	40	16868	1			
	G-901	40	168	1			
	T-530	40	168	0			
Kerosene – Toyota Castle							
	G-901	130	384	4			
LPO 2.5% in Fuel-C							
	G-558	40	140	-33	-15		
m-Cresol							
	G-801	40	168	2			
	G-901	40	168	1			
	T-530	40	168	0			
Methyl Acetate							
	G-901	40	504	126			
	G-902	40	168	101			
		40	504	111			
Methyl Acetoacetate							
	G-901	40	504	29			
Methyl acrylate							
	G-901	40	504	85			
	G-902	40	168	89			
		40	504	88			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Methyl Alcohol							
	G-551	40	70	17			
	G-607	40	70	112			
	G-621	40	70	3	-17	11	-13
		60	70	5			
		115	48	7			
	G-671	40	70	86			
	G-701	40	70	72			
	G-755	40	70	137	-82	-64	-25
	G-801	40	70	129			
	G-901	25	2544	5	-35	5	-8
		40	70	3	-18	2	-7
		40	168	6			
		40	504	6			
	G-902	40	70	4	-21	3	-7
		40	600	5			
	G-952	40	70	25			
	LT-302	40	70	93			
	T-530	40	168	3			
Methyl Alcohol in Fuel-C							
5%	G-621	40	168	12	-32	10	-14
	G-671	40	168	25	-59	-32	-13
	G-755	40	168	28	-53	-34	-19
	G-902	40	168	11	-35	-3	-10
	G-952	40	168	16	-34	-3	-10
	LT-302	40	168	25	-57	-41	-11
10%	G-551	40	168	21	-44	-6	-15
	G-621	40	168	12	-31	12	-14
	G-671	40	168	33	-60	-38	-15
	G-755	40	168	37	-60	-39	-24
	G-902	40	168	13	-38	-7	-12
	G-952	40	168	19	-37	-5	-11
15%	LT-302	40	168	32	-62	-49	-12
	G-551	40	168	23	-56	-22	-16
	G-621	-40	70	0			
		-20	70	0			
		24	70	3			
		40	70	12	-36	1	-12
		40	168	13	-31	11	-15
		60	70	17			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness	
Methyl Alcohol in Fuel-C								
15%	G-671	40	168	39	-62	-41	-16	
	G-755	-40	70	3				
		24	70	25				
		40	70	34				
		40	168	44	-64	-43	-27	
		60	70	47				
	G-902	-20	70	1				
		-40	70	0				
		24	7	4				
		40	70	12	-38	-9	-9	
		40	168	14	-38	-8	-13	
	60	70	17					
	G-952	40	168	20	-39	-7	-11	
	LT-302	40	70	37	-67	-43	-15	
		40	168	37	-64	-51	-12	
40		168	24	-45	-10	-16		
20%	G-621	40	168	14	-33	7	-15	
	G-671	40	168	41	-63	-42	-16	
	20%	G-755	40	168	49	-67	-47	-27
G-801		40	70	45				
G-902		40	70	12				
G-902		40	168	14	-35	-6	-13	
G-952		40	70	27				
G-952		40	168	21	-41	-7	-12	
LT-302		40	168	39	-65	-52	-13	
80%		G-801	40	70	143			
		G-902	40	70	7			
	G-952	40	70	34				
	LT-302	40	70	81				
85%	G-558	40	48	21.7	-48	-25	-20	
		40	70	24	-52	-33	-21	
		40	120	27.1	-56	-33	-21	
		40	168	27	-56	-33	-21	
Methyl Alcohol in Fuel-D								
20%	G-621	40	70	10	-33	-3	-20	
	G755	40	70	41	-62	-34	-23	

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Methyl Alcohol in Gasoline							
20%	G-607	40	70	24			
	G-621	40	70	5			
	G-902	40	70	6			
	G-607	40	70	35			
	G-621	40	70	6			
	G-701	40	70	35	-67	-44	-15
	G-901	40	70	9	-17	11	-10
	G-902	40	70	10	-32	-4	-5
	G-607	40	70	48			
40%	G-621	40	70	6			
	G-902	40	70	6			
	G-607	40	70	80			
60%	G-621	40	70	5			
	G-902	40	70	6			
	G-607	40	70	111			
80%	G-621	40	70	4			
	G-902	40	70	4			
Methyl Carbitol							
	G-901	40	504	10			
Methyl Cellosolve							
	G-902	40	600	12			
Methyl Formate							
	G-901	25	504	81			
Methyl i-Butyl Ketone							
	G-901	40	504	172			
	T-530	40	168	64			
Methyl t-Butyl Ether							
	G-621	40	70	59	-62	-52	-33
	G-901	40	504	57			
	G-902	40	70	63			
Methyl t-Butyl Ether (MTBE) in Fuel-C							
5%	G-755	40	24	8	-21	-8	-8
		40	168	17	-28	-16	-12
		40	336	17	-30	-16	-11
	G-902	40	24	4	-13	0	-3
		40	168	8	-11	6	-6
		40	336	10	-26	-6	-6

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Methyl t-Butyl Ether (MTBE) in Fuel-C							
10%	G-621	40	70	7	-23	-3	-6
	G-755	40	24	11	-25	-16	-8
		40	168	19	-29	-11	-13
		40	336	20	-31	-16	-13
	G-801	40	70	13			
	G-902	40	24	4	-14	0	-3
		40	70	7	-27	-7	-5
		40	168	10	-13	0	-7
		40	336	11	-21	-3	-6
	G-952	40	70	11			
	LT-302	40	70	19	-42	-22	-8
	G-755	40	24	13	-31	-18	-9
15%		40	168	22	-40	-26	-14
		40	336	22	-40	-26	-13
	G-902	40	24	5	-12	-3	-3
		40	168	11	-39	-16	-7
		40	336	13	-30	-9	-7
	G-551	40	168	21	-36	-15	-11
20%	G-621	40	168	14	-29	-4	-11
	G-671	40	168	25	-47	-31	-9
	G-755	40	24	17	-36	-21	-10
		40	168	25	-40	-26	-15
		40	336	26	-40	-26	-15
	G-902	40	24	5	-32	-9	-3
		40	168	13	-29	-9	-7
		40	336	14	-36	-16	-8
	G-952	40	168	19	-32	-6	-9
	LT-302	40	168	27	-57	-46	-7
	G-801	40	70	30			
	G-902	40	70	11			
30%	G-952	40	70	24			
	LT-302	40	70	34			
	G-801	40	70	13			
		40	70				
80%	G-801	40	70	13			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Methylenedichloride							
	G-621	40	70	14	-33	-20	-23
	G-755	40	70	33	-64	-40	-20
	G-801	40	70	35			
	G-901	40	504	16			
	G-902	40	70	16			
	G-952	40	70	25			
	LT-302	40	70	29			
	T-530	40	168	13			
Methylethylketone							
	G-901	40	504	166			
	T-530	40	168	64			
n-Amyl alcohol							
	G-801	40	168	2			
	G-901	100	70	6	-31	1	-6
		40	168	1			
	T-530	40	168	1			
n-Hexane							
	G-801	40	168	3			
	G-901	40	168	4			
		40	504	6			
	T-530	40	168	3			
N-Methyl-2-pyrrolidone							
	G-901	100	168	97			
	G-902	40	600	103			
Nitric Acid 60%							
	G-621	40	70	7			
	G-801	80	70	3	0	47	-7
	G-901	40	168	1			
		40	240	2			
		40	504	3			
		80	70	1	-28	40	-3
		100	70	7	-28	31	-9
	G-902	40	168	0			
		40	504	2			
		80	70	1	-28	40	-4
	T-530	40	168	0			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Nitric Acid Fuming	G-901	40	168	1			
	T-530	40	168	3			
Not specified Nitrobenzene	G-902	70	168	2.71	-40.8	12.1	-5.5
	G-901	40	504	14			
N,N-Dimethylacetoamide	G-901	40	504	162			
N,N-Dimethylformamide	G-901	40	504	98			
	G-902	40	168	85			
		40	504	87			
	T-530	40	168	47			
Oxalic Acid 8%	T-530	40	168	0			
Petroleum Ether	G-701	35	70	1			
Phenol	G-801	40	168	2			
	G-901	40	168	0			
		100	70	4	-40	2	-4
	T-530	40	168	0			
Phosphoric Acid 85%	G-901	100	70	0	-16	-1	0
Not specified		40	168	18			
	G-901	40	168	0			
	T-530	40	168	0			
Potassium hydroxide 30%	LT-302	100	168	0.1	-2	-4	-2
Pyridine	G-801	40	168	72			
	G-901	40	168	31			
		40	504	34			
	T-530	40	168	23			
R112	G-901	40	264	59			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
R113							
	G-901	25	264	68			
	G-902	25	168	57			
		25	504	57			
Service Oil #101	G-621	200	70	5	-17	16	-18
	G-701	200	70	10	-18	-10	-9
	G-755	200	70	12	-2	19	-9
Sodium 20%	G-801	80	70	0	1	8	-1
	G-901	80	70	1			
30%	G-901	40	240	5			
		40	504	2			
50%	T-530	40	168	0			
Sodium Hypochlorite 10%	G-701	85	70	0	-10	7	-3
	G-801	40	168	0			
	G-901	40	168	0			
		40	240	2			
		40	504	2			
		85	70	0	-10	10	-3
	G-902	85	70	0	-17	10	-2
	T-530	40	168	0			
Stauffer Blend 7700							
	G-621	175	70	5	-24	-5	-7
	G-701	175	70	18	-20	12	-11
	G-704	175	70	18	-19	11	-12
	G-755	175	70	21	-14	-11	-14
	G-801	40	168	3			
		175	70	17	-5	13	-12
	G-901	40	168	1			
		175	70	5	-11	8	-5
	G-902	175	70	5	-16	5	-8
	LT-302	175	70	15			
	T-530	40	168	1			
Steam							
	G-621	150	70	9	-34	14	2
	G-701	150	70	8	-14	10	-2
	G-801	150	70	3	-9	4	-2

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Steam	G-901	150	70	3	-5	-5	-3
		150	720	3			
		165	70	2	-14	4	-2
		190	720	5			
	G-902	150	70	1	-3	7	1
		150	672	2.7	3.9	-14.9	1.8
		165	70	2	-25	-10	-2
	G-952	150	72	2.3	-11	6	-2
	LT-302	160	672		-4	-4	-1
Sulfuric Acid 98%	G-501	25	8760	6	2	4	-2
		35	672	4	4	-6	-1
	G-701	80	70	4	-1	-7	-7
	G-801	40	168	0			
		80	70	1	4	8	-1
	G-901	40	168	0			
		40	240	1			
		40	504	3			
		80	70	1	-3	3	-2
	G-902	100	70	2	-18	-2	-2
		40	168	0			
		40	504	2			
		80	70	2	-3	5	0
	G-952	80	72	1.2	-5	2	0
	T-530	40	168	0			
Fuming	G-801	40	168				
	G-901	40	168	10			
	T-530	40	168	3			
	G-902	70	672	1.8	0.8	1.8	1.4
Not Specified							
t-Butylalcohol	G-902	40	600	4			
Tetrachlorocarbon							
	G-701	35	70	2			
	G-801	40	168	9			
	G-901	40	168	9			
		40	504	15			
	T-530	40	168	7			

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Tetrachloroethylene							
	G-801	40	168	4			
	G-901	40	168	6			
		40	504	8			
		100	168	13			
	T-530	40	168	5			
Tetrahydrofuran							
	G-901	40	504	161			
Toluene							
	G-621	40	70	8	-24	-7	-8
		100	70	14	-21	-8	-16
	G-701	35	70	20			
		40	70	13	-37	-20	-10
	G-704	40	70	13	-33	-9	-13
	G-755	40	70	26	-44	-20	-15
		100	70	34	-56	-33	-17
	G-801	40	48	23	-38	-11	-19
		40	70	25			
		40	168	22			
	G-901	40	70	7	-9	10	-7
		40	168	11			
		40	504	12			
		100	70	14	-53	-19	-9
	G-902	40	70	7	-22	5	-10
	G-952	40	70	16			
	LT-302	40	70	22			
	T-530	40	168	8			
Trichloro Trifluoro Ethane							
	G-701	35	70	15			
Trichloroethane							
	G-751	40	70	11	-38	-17	-8
	G-801	40	168	26			
	G-901	40	168	21			
	T-530	40	168	16			
Trichloroethylene (Trichlene)							
	G-621	40	70	11			
		40	70	10	-24	-5	-19
	G-701	35	70	8			
	G-755	40	70	11	-28	1	-13

Solvent	Grade	Temp. (°C)	Time (hours)	Volume change (%)	Change of Tensile strength (%)	Change of Elongation (%)	Change of Hardness
Trichloroethylene (Trichlene)							
	G-801	40	168	13			
	G-901	40	168	12			
		40	504	2			
	G-902	40	70	11			
	T-530	40	168	9			
Tricresyl Phosphate							
	G-801	40	168	4			
	G-901	40	168	1			
		100	168	2			
	G-902	40	168	1			
		40	504	4			
		100	504	1			
	T-530	40	168	0			
Triethyl Phosphate							
	G-901	40	504	196			
Triethylamine							
	G-902	40	168	35			
		40	504	92			
Water							
	G-621	120	70	2	-19	30	2
	G-801	125	72	3	-7	5	-3
	G-901	95	168	1			
		125	70	1	-4	6	-2
	G-902	120	70	1	-5	5	1
		125	70	2	-16	6	-3
	G-952	125	72	2.1	-11	5	-3
Xylene							
	G-621	100	70	11	-21	-7	-18
	G-701	35	70	7			
	G-755	100	70	26	-46	-18	-19
	G-801	40	70	14			
	G-901	40	504	9			
	G-902	40	70	3			
		40	600	8			
	G-952	40	70	8			
	LT-302	40	70	17			