

Chemical Protection Advanced Solvent Protection with Cleanliness and Mechanical Performance

Finished, inspected and packaged in certified class M3.5 (100) clean environments.
Class M2.5 Compatible.

STANSOLV® A-10CR (519)

Product Benefits

- STANSOLV® A-10CR nitrile gloves outperform natural rubber gloves in organic solvents and caustics commonly used in electronics.
STANSOLV® gloves contain no natural rubber and are recommended to persons sensitized to natural latex proteins.
- MAPA ADVANTECH's exclusive nitrile formulation offers high mechanical performance and is especially resistant to abrasion and puncture.
- Excellent grip in wet conditions: the unique "Z pattern" embossed grip enables handling of wet or dry objects with confidence.
- Excellent dexterity for minimal hand fatigue: ergonomic fit, complete size range.
- Excellent donning provided by the exclusive chlorination and cleaning processes.
- Maximum tactility without compromised chemical resistance allowed by the 11 mil (0.30 mm) thickness. The 13" (33 cm) length protects forearm from chemical splash.
- Easy size identification: size embossed on each glove cuff.



Applications

All applications requiring low particles and extractables levels with resistance to solvents, puncture and abrasion:

- Polysilicon Handling.
- Pure Chemicals Manufacturing.

- Organic Solvents Handling.
- Chemical Mixing and Dispensing.



Quality Standards and Test Methods

- Particles, extractables and NVR's (Non-Volatile Residues) tested using IEST-RP-CC005.2 recommended test methods on randomly selected production.
 - Every STANSOLV® production lot is tested for particle levels.
 - A standard battery of extractable tests are also performed.
 - Particles and extractables test data available upon request.
- Corrosion levels tested in accordance with ASTM D130.
- Meets or exceeds 1.5% AQL in accordance with ASTM D3577. 100% inflation inspection.
- **Class M2.5 compatible. Average particles per cm²: 500 or less.**

- MAPA ADVANTECH's clean environments are monitored daily for user assurance of consistency clean product handling and packaging.
- In compliance with 21 CFR 170-199.
 - Permeation test performed in accordance with ASTM F739 and EN 374-3.
 - Degradation tests performed in accordance with ASTM D471. Elongation, tensile and tear tested in accordance with ISO 37 and ISO 34-2 respectively and EN 388.
 - Surface resistivity 10 Ω¹² per Sq. tested in accordance with modified ASTM D257.
 - Manufactured in an ISO 9002 certified MAPA facility.



Packaging Specifications

- Pair packaged in heat sealed, clean polybag.
- 12 pairs packaged in twist tied clean, plain polybag.
- Each carton "H" taped, sealing all carton folds, top and bottom.
- Each inner bag and carton imprinted with lot #'s for traceability.
- Minimal printing on pair packaging for reduced contamination.
- Packaging conforms to CE requirements.
- Case size: 15.5" x 12.25" x 7.25" (394 x 311 x 184 mm).
- Case Weight: 10 lbs. (4.5 kg) average.

Case Packing

- 1 pair sealed polybag
- 6 master polybags/case
- 12 pairs/master polybag
- 72 pairs/case



Packaging Subject to Change

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Chemical Resistance Chart

Chemical	CAS #	Permeation (EN 374)			Standards D471 and F739					
		Degradation Index (1 to 4)	BreakThrough Time (minutes)	Permeation Index (0 to 6)	Degradation: % Wt. Change in minutes				Normalized Permeation Rate at steady state (µg/cm²/mn)	
					5	30	60	240	BTT	
Acetic Acid (99%)	64-19-7				<6	18	34	47	43	ND
Acetone (99%)	67-64-1				29	54	57	55	4	NRD
Ammonium Hydroxide (30%)	1336-21-6				0	1	2	3	440	0.24
Aqua Regia (1)	8007-56-5				<1	<2	2	<3	>480	ND
Butyl Acetate (99%)	123-86-4	3	13	1	6	21	26	31	44	332.4
Ethanol (95%)	64-17-5				NT	NT	NT	NT	92	21.7
2-Ethoxyethyl Acetate (Cellosolve Acetate)	111-15-9				NT	NT	NT	NT	75	70.1
Ethyl Lactate (98%)	687-47-8				NT	NT	NT	NT	152	117
Ethyl 3-Ethoxypropionate	763-69-9				NT	NT	NT	NT	76	174
Ethylene Glycol (99%)	107-21-1				0	0	0	<1	>480	ND
Hexamethyldisilazane HMDS (98%)	999-97-3				NT	NT	NT	NT	>480	<0.001
Hexane (95%)	110-54-3				0	0	0	0	>480	0.005
Hydrofluoric Acid (48%)	7664-39-3				13	24	20	21	200	>16
Isopropanol	67-63-0	4	392	5	0	<1	1	<3	>480	ND
Methanol	67-56-1	2	12	1	2	5	8	11	30	98.5
N-Methyl 2-Pyrrolidinone	872-50-4				23	105	150	241	21	239
Sodium Hydroxide (20%)	1310-73-2	4	>480	6						
Sodium Hydroxide (50%)	1310-73-2		>480	6						
Sulfuric Acid (40%)	7664-93-9	4	>480	6						
Sulfuric Acid (96%)	7664-93-9				19	45	81	NT	110	NRD
Tetrachlorethylene (perchloroethylene)	127-18-4	4	44	2						
Tetramethyl Ammonium Hydroxide (25%)	75-59-2				NT	NT	1.5	NT	>480	ND
Toluene (99%)	108-88-3	2	7	0	15	42	43	47	10	>740.3
1,1,1-Trichloroethane	71-55-6				NT	NT	NT	NT	52	534.9
Xylene	1330-20-7	2	12	1	8	21	32	37	38	234

NT: Not Tested. ND: None Detected. NRD: No Rate Determined.

(1) 35% Nitric Acid
65% Hydrochloric Acid

Material	Color	External Finish	Length Gauge	Ordering Information	
				Sizes	A-10CR (519)
Nitrile	Green	Flat cuff design. "Z" pattern	13"/33 cm 0.011"/0.30 mm	6-6 ^{1/2}	519316
				7-7 ^{1/2}	519317
				8-8 ^{1/2}	519318
				9-9 ^{1/2}	519319
				10-10 ^{1/2}	519310
				11	519311

Degradation Key

Weight Change	Performance Rating
0 - 10%	Excellent
11 - 20%	Good
21 - 30%	Fair
Over 30%	Poor

Due to the nature of the products, the dimensions expressed are nominal values.
For more detailed information: product brochure available upon request from MAPA ADVANTECH Customer Service.

North America: 1126 Industrial Parkway North, Brunswick, OH 44212 - USA
Tel (US and Canada): 1.800.537.2897 - Fax (US and Canada): 1.800.537.3299 - www.mapaglove.com
UK: Unit A - Halesfield 14, Telford Shropshire TF7 4QR - UNITED-KINGDOM
Phone: (44) 1952 684 487 - Fax: (44) 1952 580 959
World: 57, rue de Villiers - B.P. 190 - 92205 Neuilly-sur-Seine Cedex - FRANCE
Tél.: (33) 1 49 64 22 00 - Fax: (33) 1 49 64 24 39 - www.mapa-advantech.com

