



T-AirLine Headtops

Chemical Permeation Guide

Chemical	CAS Number	ISO 6529 Annex A List	T-AirLine 1000SS1 614051	T-AirLine 1000SS3 614052	Chemical Workwear SS1 Series 100201	Chemical Workwear SS3 Series 100402
Acetic Acid	64-19-7		nt	>480	nt	>480
Acetic Anhydride	108-24-7		nt	>480	nt	>480
Acetone	67-64-1	X	imm.	>480	imm.	>480
Acetonitrile	75-05-8	X	>480	>480	>480	>480
Acrolein	107-02-08		nt	>480	nt	>480
Acrylic Acid	79-10-7		120	>480	120	>480
Acrylonitrile	107-13-1		nt	>480	nt	>480
Allyl Alcohol	107-18-6		nt	>480	nt	>480
Ammonia Gas	7664-41-7	X	imm.	>480	imm.	>480
Amyle Acetate	628-63-7		Nt	>480	Nt	>480
Aniline	62-53-3		nt	>480	nt	>480
Benzene	71-43-2		nt	>480	nt	>480
Benzyl Alcohol	100-51-6		nt	nt	nt	nt
Bromine	7726-95-6		nt	imm.	nt	imm.
n-Butanol	71-36-3		nt	nt	nt	nt
n-Butyl Ether	142-96-1		nt	>480	nt	>480
Butraldehylde	123-72-8		nt	nt	nt	nt
1,3-Butadiene	106-99-0		imm.	>480	imm.	>480
Carbon Disulfide	75-15-0	X	>480	>480	>480	>480
Carbon Monoxide	630-08-0		nt	320	nt	320
Chlorine Gas	7782-50-5	X	imm.	>480	imm.	>480
2-Chloroethanol	107-07-3		>480	-	>480	-
Chloroacetone	78-95-5		nt	nt	nt	nt
Chlorobenzene	108-90-7		nt	9	nt	9
Chlorosulfuric Acid	7790-94-5		nt	nt	nt	nt
Crotonaldehyde	123-73-9		nt	nt	nt	nt
Cyclohexane	110-82-7		nt	>480	nt	>480
Cyclohexanone	108-94-1		nt	nt	nt	nt
Cyclohexyl Isocyanate	3173-53-3		nt	nt	nt	nt
1,2-Dichloroethane	107-06-2		nt	>480	nt	>480
Dichloromethane	75-09-2	X	imm.	>480	imm.	>480
1,2-Dichloropropane	78-87-5		nt	nt	nt	nt

Chemical	CAS Number	ISO 6529 Annex A List	T-AirLine 1000SS1 614051	T-AirLine 1000SS3 614052	Chemical Workwear SS1 Series 100201	Chemical Workwear SS3 Series 100402
Diesel Fuel	68334-30-5		nt	>480	nt	>480
Diethylamine	109-89-7	X	imm.	imm.	imm.	imm.
Dimethylacetamide	127-19-5		nt	nt	nt	nt
Dimethylsulfoxide	67-68-5		nt	>480	nt	>480
Dimethyl Formamide	68-12-2		>480	>480	>480	>480
Dinoseb	88-85-7		nt	>480	nt	>480
Epichlorohydrin	106-89-8		nt	>480	nt	>480
Ethanol Amine	141-43-5		nt	>480	nt	>480
Ethyl Acetate	141-78-6	X	imm.	>480	imm.	>480
Ethyl Benzene	100-41-4		nt	>480	nt	>480
Ethylene Glycol	107-21-1		>480	>480	>480	>480
Ethylene Oxide Gas	75-21-8		>480	>480	>480	>480
Formaldehyde	50-00-0		nt	>480	nt	>480
Formic Acid	64-18-6		>480	>480	>480	>480
Gasoline	86290-81-5		nt	>480	nt	>480
Hexamethyldisilazane	999-97-3		nt	nt	nt	nt
HDI - Hexamethylene Diisocyanate	822-06-0		>480	>480	>480	>480
n-Hexane	110-54-3	X	imm.	>480	imm.	>480
Hydrochloric Acid	7647-01-0		420	>480	420	>480
Hydrogen Chloride Gas	7647-01-0	X	imm.	>480	imm.	>480
Hydrogen Fluoride	7664-39-3		nt	>480	nt	>480
Hydrogen Fluoride Gas	7664-39-3		nt	>480	nt	>480
Hydrogen Peroxide	7722-84-1		>480	>480	>480	>480
Isoamyl Alcohol	123-51-3		nt	-	nt	-
Isopropanol	N/A		>480	-	>480	-
Jet Fuel A	N/A		imm.	>480	imm.	>480
Jet Fuel JP-8	N/A		imm.	>480	imm.	>480
Lithium Chloride	7447-41-8		>480	nt	>480	nt
Mercury II Nitrate (1000 ppm solution)	7783-34-8		nt	>480	nt	>480
Methanol	67-56-1	X	210	>480	210	>480
Methylamine	74-89-5		-	>480	-	>480

Methyl Chloride Gas	74-87-3		>480	>480	>480	>480
MDA – Methylene Dianiline	83712-44-1		imm.	>480	imm.	>480
MDI - Methylene Diphenyl Diisocyanate	101-68-8		>480	>480	>480	>480
Methyl Ethyl Ketone	78-93-3		nt	>480	nt	>480
Methyl Methacrylate	80-62-6		-	>480	-	>480
Nitric Acid	7697-37-2		>480	>480	>480	>480
Nitrobenzene	98-95-3		50	170	50	170
Nitrogen Dioxide	10102-44-0		nt	>480	nt	>480
Oleum	8014-95-7		nt	>480	nt	>480
Phenol	108-95-2		>480	>480	>480	>480
Phosphoric Acid	7664-38-2		nt	>480	nt	>480
Phosphoric Trichloride	7719-12-2		nt	20	nt	20
Propionitrile	107-12-0		>480	nt	>480	nt
Propylene Oxide	75-56-9		nt	>480	nt	>480
Sodium Hydroxide (50%)	7664-93-9	X	>480	>480	>480	>480
Styrene	100-42-5		nt	>480	nt	>480
Sulfuric Acid (30%)	7664-93-9		>480	>480	>480	>480
Sulfuric Acid (96%)	7664-93-9	X	>480	>480	>480	>480
Sulphur Dioxide	7446-09-5		nt	>480	nt	>480
Sulfur Trioxide	7446-11-9		nt	80	nt	80
Tetrachloroethylene	127-18-4		imm.	>480	imm.	>480
Tetrafluoroacetic Acid			nt	nt	nt	nt
Tetrahydrofuran	109-99-9	X	imm.	>480	imm.	>480
Titanium Tetrachloride	7550-45-0		nt	>480	nt	>480
Toluene	108-88-3	X	imm.	>480	imm.	>480
Trichloroethylene	79-01-6		nt	>480	nt	>480
Trifluoroacetic Acid	76-05-1		nt	>480	nt	>480
Trichlorovinylsilane	75-94-5		nt	nt	nt	nt
Vinyl Acetate	108-05-4		nt	>480	nt	>480
Vinyl Chloride	75-01-4		nt	>480	nt	>480
Xylene	1330-20-7		nt	>480	nt	>480

Please Note:-

The Breakthrough in Minutes below represents the time taken for a chemical to achieve a specific permeation rate through the fabric as defined by the standard EN374-3. This table represents results achieved according to this particular test under laboratory controlled conditions. The “breakthrough in minutes” is not designed to indicate a particular duration of “safe use” for a garment in a working environment but to indicate in general terms the ability of the fabric to provide a barrier against a specific chemical. The particular conditions in any specific application may vary considerably and therefore it is always the user’s responsibility to ensure a garment is suitable for the task. ChemMAX garments are designed as single use and as with any chemical suit we would recommend that once contaminated with a chemical they are removed and disposed of at the earliest opportunity.



Disposable Face Mask



Half Face Mask



Full Face Mask



PAPR



Escape Hood



Airline



Face Fit Testing



Gas Tight Coverall



Flame Retardant Coverall



Multi Use Coverall



Eye Protection



Head Protection



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