

# RESISTANCE OF COVERS TO PRODUCTS CONVEYED

Summary table

## LEVEL OF RESISTANCE

### KEY

The classification given below is based on the classification system in standard ISO / TR7620 2005

++ Good resistance. Corresponds to class 1 of standard ISO / TR7620 2005

+ Acceptable resistance. Corresponds to class 2 of standard ISO / TR7620 2005

⊗ Depends on conditions of use. Corresponds to class 3 of standard ISO / TR7620 2005

/ Unfit for use. Corresponds to class 4 of standard ISO / TR7620 2005

The max. temperatures indicated are those of the product. In no case are they the temperature of the conveyor's environment.

When the limit temperature is not indicated for the recommendation, take the max. product temperatures indicated below.

For liquids the recommendations are indicated for an ambient temperature (unless specified otherwise).

Grade	Continuous state	Intermittent state
D - X - Y - W - R - K - S	80° C.	100° C.
TEA - T1	120° C.	150° C.
TEB	150° C.	200° C.
TEC	180° C.	220° C.
G - JGF	80° C.	100° C.
GM - JGM - JGS	80° C.	100° C.
CR - V	70° C.	100° C.

The purpose of this list is to provide quick information. The large number of substances and the variety of the installations concerned do not allow the conducting of the tests for all possible conditions of use.

This list is a guide for the choice of the cover grade. It is not a guarantee for use.

Our technicians are ready to advise you and if necessary conduct specific tests to determine the cover grade best suited to your particular need.

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MATERIALS	Concentration	Material temperature °C	COVER GRADE						
			D X Y W R K S	TEA T1	TEB	TEC	G JGF	GM JGM JGS	CR V
Acetic acid	Pure	ambient	?	?	?	?	?		
	Weak	ambient	?	?	?	+	?		
Acetone (contact)		ambient	++	++	++	++	/		
Alumina sulphate			++	++	++	++	++	++	++
Aluminium									
chloride			++	++	++	++	++	++	++
fluoride			++	++	++	++	++	++	++
sulphate			++	++	++	++	++	++	++
Ammonium									
Carbonate			++	++	++	++	++	++	++
Nitrate		< 60	++	++	++	++	++	++	++
Nitrate		< 100	?	+	+	+	+		
Nitrate		> 100	/	?	+	+	?		
chloride			++	++	++	++	++	++	++
sulphate			++	++	++	++	++	++	++
Anthracite (screened grains)			++	++	++	++	++	++	++
ASTM 1		20	/	/	?	/	++		+
		50	/	/	?	/	++		+
ASTM 2		20	/	/	/	/	++		?
		50	/	/	/	/	+		?
Ball agglomerates			+	+	+	++	++		
Barite (barium sulphate)			++	++	++	++	++	++	++
Barium chloride			++	++	++	++	++	++	++
Barium sulphate			++	++	++	++	++	++	++
Baryte			++	++	++	++	++	++	
Basalt			++	++	++	++	++	++	++
Bauxite (unsorted crushed material)			++	++	++	++	++	++	++
Beet (sugary liquor)			++	++	++	++	++	++	++
Bentonites (clay rich in magnesium)			++	++	++	++	++	++	++
Benzene			/	/	/	/	/	/	/
Bi (tri) ammonium phosphate			++	++	++	++	++	++	++
Bicarbonate of soda			++	++	++	++	++	++	++
Bitumen		< 80	++	++	++	++	++		
		> 80	/	/	/	?	?		
Blast furnace agglomerates			+	+	+	++	++		
Bone			?	?	?	?	++	+	+
Boric acid			++	++	++	++	++	++	++
Briquettes			++	++	++	++	++	++	++

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			D X Y W R K S	TEA T1	TEB	TEC	G JGF	GM JGM JGS	CR V
Brown coal			++	++	++	++	++	++	++
Butter			/	/	/	/	+	/	/
Calcinated hydrated alumina			++	++	++	++	++	++	++
Calcined crushed raw gypsum			++	++	++	++	++	++	++
Calcium									
chloride			++	++	++	++	++	++	++
cyanamide		ambient	++	++	++	++	++	++	++
phosphate			++	++	++	++	++	++	++
sulphate			++	++	++	++	++	++	++
Cassiterite: SnO <sub>2</sub> tin oxide			++	++	++	++	++	++	++
Cast iron			++	++	++	++	++	++	++
Caustic									
potash			++	++	++	++	++	++	++
soda			?	+	++	++	?	?	
Cement			++	++	++	++	++	++	++
Cerrusite (Pb Co <sub>3</sub> )			++	++	++	++	++	++	++
Chicken droppings		ambient	++	++	++	++	++	++	++
Chlorinated paraffin		ambient	/	/	/	/	+	/	
Chromic acid		ambient	/	/	/	/	/		
Citric acid		ambient	++	++	++	++	++		
Clinker			++	++	++	++	++	++	++
Coal:									
anthracite			++	++	++	++	++	++	++
balls			++	++	++	++	++	++	++
bituminous			/	/	/	?	+		
smalls			++	++	++	++	++	++	++
Cocoa in beans (fatty)			/	/	?	/	++	++	
Coffee (beans)			?	?	?	?	++	+	
Coffee pods			++	++	++	++	++	++	++
Coke			++	++	++	++	++	++	++
Colza		20	+?	+?	+?	?	++	+	+?
		50	+?	+?	+?	?	++	+?	+?
Concrete			++	++	++	++	++	++	++
Copper sulphate			++	++	++	++	++	++	++
Copra (oleaginous)			/	/	/	/	++		
Cork			++	++	++	++	++	++	++
Corncobs			++	++	++	++	++	++	++
Cottonseed flour (vegetable fat)		80	/	/	/	/	++	/	
		120	/	/	/	/	?	/	

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			D X Y W R K S	TEA T1	TEB	TEC	G JGF	GM JGM JGS	CR V
Creosote (guaiacol)			/	/	/	/	++		
Crushed grape pips (fatty acid)		ambient	?	?	?	?	++	+	
Crushed shells			++	++	++	++	++	++	++
Cryolite, sodium aluminofluoride			++	++	++	++	++	++	++
Cullet (crushed glass)			++	++	++	++	++	++	++
Cupric chloride			++	++	++	++	++	++	++
Damp clay			++	++	++	++	++	++	++
Diesel fuel (products impregnated with)		/	/	/	/	++	/	/	
Diethylene glycol		20	++	++	++	++	++	++	++
		50	++	++	++	++	++	++	++
Dog food			?	?	?	?	+		
Dolomite			++	++	++	++	++	++	++
Dry and damp gravel			++	++	++	++	++	++	++
Dry clay			++	++	++	++	++	++	++
Ethanol		20	+	+	++	++	++	+	++
		50	?	?	++	++	?	?	++
Feldspar			++	++	++	++	++	++	++
Ferric chloride			++	++	++	++	++	++	++
Fertilisers (except with presence of ammonium nitrate)									
Fertilisers with presence of ammonium nitrate		< 70	++	++	++	++	++	++	
		70<T<110	?	++	++	++	?	?	
		> 110	/	?	++	++	/	/	
Fertilisers with presence of fatty substances			/	/	/	/	?	/	
Fired bricks			++	++	++	++	++	++	++
Flint			++	++	++	++	++	++	++
Formic acid		ambient	+	+	+	+	/		
Foundry sand			++	++	++	++	++	++	++
Fuel oil			/	/	/	/	++	/	/
Gasoline (products impregnated with)			/	/	/	/	++	/	/
Glucose			++	++	++	++	++	++	++
Glycol esters		20	?	?	++	++	/	/	
		50	/	/	++	++	/	/	
Grape-cake		ambient	++	++	++	++	++	++	++
Hard limestone			++	++	++	++	++	++	++
Hay in pressed bales			++	++	++	++	++	++	++
Household waste (fatty)			?	?	?	?	++	?	+

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			D X Y W R K S	TEA T1	TEB	TEC	G JGF	GM JGM JGS	CR V
Hydrated alumina + caustic soda		60	++	++	+	+	+		
Hydrated lime			++	++	++	++	++	++	++
Hydrocarbons (products impregnated with):									
aliphatic			/	/	/	/	++	/	
aromatic			/	/	/	/	?	/	
chlorinated			/	/	/	/	?	/	
Hydrochloric acid	Diluted	<70	+	+	++	++	++		
		>70	/	/	++	++	/		
	37%	70 max.	/	/	++	+	/		
Iron sulphate			++	++	++	++	++	++	++
Isobutanol		20	+	+	++	++	+	+	++
		50	+	+	++	++	?	?	++
Isopropanol		20	+	+	++	++	+	+	++
		50	+	+	++	++	?	+	++
Kaolin			++	++	++	++	++	++	++
Kerosene		20	/	/	/	/	++	?	?
		50	/	/	/	/	++	/	/
Lactic acid		ambient	?	?	?		?		
Lilamine		40	/	/	/	/	++	/	
Limestone flux			++	++	++	++	++	++	++
Loose or crushed glass:									
with oil ...			/	/	/	/	++	?	
without oil			++	++	++	++	++	++	++
Loose wood (logs)			++	++	++	++	++	++	++
Magnesia		ambient	++	++	++	++	++	++	++
Magnesium chloride			++	++	++	++	++	++	++
sulphate			++	++	++	++	++	++	++
Malt (grains) with presence of fat		90	?	?	?	?	++	?	
Manganese (magnesia dioxide and manganese chloride)		ambient	++	++	++	++	++	++	++
Manganese chloride		ambient	++	++	++	++	++	++	++
dioxide			++	++	++	++	++	++	++
Marble			++	++	++	++	++	++	++
Marl			++	++	++	++	++	++	++
Mercury chloride			++	++	++	++	++	++	++
Metallurgical coke		100 max.	/	/	/	/	+		
Pitch and tar road coating									

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			D X Y W R K S	TEA T1	TEB	TEC	G JGF	GM JGM JGS	CR V
Metaoxybenzoic acid or cresol		70 max.	/	/	/	/	+	/	/
Monochlorobenzene			/	/	/	/	/	/	/
Monoethylene glycol		20	++	++	++	++	++	++	++
		50	++	++	++	++	++	++	++
Naphtha		20	/	?	/	/	/	/	/
		50	/	/	/	/	/	/	/
5% fatty solid naphthaline			/	/	/	/	?	/	/
Nickel chloride			++	++	++	++	++	++	++
sulphate			++	++	++	++	++	++	++
Nitric acid	45%	ambient	/	/	?	?	/	/	/
	30%	ambient	/	/	+	?	/	/	/
	17%	ambient	?	?	+	?	/	/	/
	Diluted	ambient	?	?	+	?	/	/	/
Nonanol		20	+	+	++	+	+	+	++
		50	+	+	++	+	+	+	++
Oats			++	++	++	++	++	++	++
Oils (products impregnated with):									
mineral			/	/	/	/	?	/	/
other			/	/	/	/	?	/	/
synthetic			/	/	/	/	?	/	/
vegetable			/	/	/	/	++	++	++
Oleic acid			?	?	?	?	++	++	++
Ordinary alumina			++	++	++	++	++	++	++
Oxalic acid			+	+	++	++	+	+	++
Palmitic acid				?	?	?	?	++	++
Paper pulp			++	++	++	++	++	++	++
Peanuts broken in shells			/	/	/	/	++	++	++
Pebbles			++	++	++	++	++	++	++
Perborate		ambient	+	+	++	++	?	?	++
Phosphoric acid		70 max.	?	?	?	+	?	?	?
Porphyry			++	++	++	++	++	++	++
Potassium chloride			++	++	++	++	++	++	++
cyanide			++	++	++	++	++	++	++
sulphate			++	++	++	++	++	++	++

TECHNICAL INFORMATION

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			D X Y W R K S	TEA T1	TEB	TEC	G JGF	GM JGM JGS	CR V
Powdered asphalt + .6% bitumen		100 max.	?	?	?	/	++		
Powdery plaster			++	++	++	++	++	++	++
Pozzolana			++	++	++	++	++	++	++
Pyrites			++	++	++	++	++	++	++
Quartz			++	++	++	++	++	++	++
Quartzite			++	++	++	++	++	++	++
Quick lime			++	++	++	++	++	++	++
Raw bituminous materials		Ambient	++	++	++	++	++		
Raw crushed granite			++	++	++	++	++	++	++
Resinous wood (pine)			?	?	?	?	++	+	?
Rock salt			++	++	++	++	++	++	++
Round pebbles			++	++	++	++	++	++	++
Sand			++	++	++	++	++	++	++
Sandstone			++	++	++	++	++	++	++
Sea salt			++	++	++	++	++	++	++
Shale			++	++	++	++	++	++	++
Slag			++	++	++	++	++	++	++
Slate			++	++	++	++	++	++	++
Slurry: Silico aluminate									
Soda solution									
Sodium silicate H <sub>2</sub> O									
Sodium silicate HO 33%			++	++	+	+	+		
Soda ash			++	++	++	++	++	++	++
Soda ash Calcium carbonate			++	++	++	++	++	++	++
Soda ash Potash			++	++	++	++	++	++	++
Sodium bisulphate			++	++	++	++	++	++	++
Sodium borate (borax)			++	++	++	++	+		
chloride			++	++	++	++	++	++	++
cyanide			++	++	++	++	++	++	++
perborate			?	?	++	++	?	?	
peroxide			?	?	++	+	?	?	
silicate			++	++	++	++	++	++	++
sulphate			++	++	++	++	++	++	++
Solid pitch (sticks)		100	?	?	?	?	++		
Soya (fatty acid)		ambient	?	?	?	?	++	+	
Stearic acid			?	?	?	?	+		
Stearine			?	?	?	?	++	+	

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