

Habasit Chemical Resistance Class Overview

Remarks / Preconditions

The properties indicated are not guaranteed!

Solids

All Habasit power transmission and conveyor belts are resistant to all kinds of solids.

Cleaning, Disinfection

For the cleaning and disinfection of our products, neutral, acidic and alkaline cleaners may be used (see following table/class overview), provided that the producers specifications regarding concentration, temperature and exposure time are strictly complied with. If these instructions are not adhered to, damage is likely to occur.

Chemicals

▲ ! Combinations of chemicals may cause unpredictable damage.

Water

Belt types with a traction layer made of polyamide (of resistance classes 1 and 2) are hygroscopic. They are subject to elongation by water absorption up to approx. 2 % and shrink again on drying.

▲ ! In extreme cases (immersion in water), irreversible shrinking may occur.
Armid belts are not hygroscopic. Belt types with a traction layer made of polyester (of resistance classes 3, 4, 5, 6, 7, 8, 9, 10) remain dimensionally stable on exposure to water.

Radiation

▲ ! High-energy radiation (α , β , γ), x-rays and electron beams result in general in a reduced lifetime.

Influences not listed

Our application engineers will be pleased to provide information on the resistance to influences not listed.

Legend

- = **Resistant** under standard climatic conditions of 23°C/73°F and 50% relative humidity (DIN 50005/ISO 554).
- ◐ = **Limited resistance**. Depending on operating conditions (exposure time, thermal / mechanical stress), discoloration, swelling, embrittlement or abrasion is possible.
- = **Not resistant**.



Influence	Habasit Chemical Resistance Class									
	1	2	3	4	5	6	7	8	9	10
A										
Acetic acid >25%	○	○	○	◐	○	○	○	●	◐	●
Acetone	●	○	○	●	○	○	○	●	●	●
Alcohols	●	●	○	●	●	○	●	●	●	●
Alkalis, strong	●	●	◐	◐	◐	◐	◐	●	●	●
Alkalis, weak	●	●	●	●	●	●	●	●	●	●
Ammonia, gaseous and aqueous	●	●	●	◐	◐	●	●	●	●	●
Ammonium salts	●	●	●	●	●	●	●	●	●	●
Amyl acetate	●	◐	○	◐	◐	○	○	●	◐	●
Amyl alcohol	●	●	○	●	●	○	○	●	●	●
Aniline	●	◐	○	●	◐	○	○	●	◐	◐
Arachis Oil	●	●	○	◐	●	●	●	●	◐	●
B										
Baking fats	●	●	◐	◐	●	●	◐	●	◐	●
Baking powder	●	●	●	●	●	●	●	●	●	●
Beer	●	●	●	●	●	●	●	●	●	●
Benzene	●	○	○	○	○	○	○	●	○	○
Benzoic acid	●	●	●	●	●	●	●	●	●	●
Bitter almond oil	●	●	○	◐	●	●	○	●	◐	●
Bitumen	●	●	◐	○	●	●	◐	●	◐	●
Bleaching lyes	◐	○	◐	○	○	○	◐	●	◐	●
Boric acid	●	●	●	●	●	●	●	●	●	●
Brandy	●	●	●	●	●	●	●	●	●	●
Bromine	○	○	○	○	○	○	○	●	○	◐
Butanol	●	●	○	●	●	○	○	●	●	●
Butter	●	●	○	◐	●	●	●	●	◐	●
Butyric acid	●	●	◐	◐	●	●	◐	●	◐	●



Influence	Habasit Chemical Resistance Class									
	1	2	3	4	5	6	7	8	9	10
C										
Calcium cyanamide	●	●	●	●	●	●	●	●	●	●
Carbon tetrachloride	●	○	○	○	○	○	○	●	○	▸
Castor oil	●	●	○	▸	●	●	●	●	▸	●
Caustic soda	●	●	▸	▸	▸	▸	▸	●	●	●
Caustic soda solution	●	●	▸	▸	▸	▸	▸	●	▸	●
Chlorine	○	○	○	○	○	○	▸	●	○	●
Chlorobenzene	●	○	○	○	○	○	○	●	○	○
Chromic acid	▸	▸	○	▸	▸	▸	○	●	▸	●
Cider	●	●	●	●	●	●	●	●	●	●
Citric acid	●	●	●	●	●	●	●	●	●	●
Coconut oil	●	●	○	▸	●	●	●	●	▸	●
Cola concentrates	●	●	●	●	●	●	●	●	●	●
Common salt	●	●	●	●	●	●	●	●	●	●
Cottonseed oil	●	●	○	▸	●	●	○	●	▸	●
Cresol	○	○	○	○	▸	○	○	●	○	▸
Cyclohexane	●	●	○	○	●	▸	○	●	▸	▸
Cyclohexanol	●	●	○	▸	●	○	○	●	▸	●
Cyclohexanone	●	○	○	▸	○	○	○	●	▸	●
D										
Decaline	●	●	○	○	●	●	○	●	○	○
Detergents (see also remarks)										
- acid	○	○	●	●	●	●	●	●	●	●
- alkaline	●	●	●	▸	●	●	●	●	●	●
- chlorinated	▸	▸	▸	▸	▸	▸	●	●	●	●
- neutral	●	●	●	●	●	●	●	●	●	●
Developer, photographic	▸	▸	▸	▸	●	●	▸	●	▸	●
Diazonium salts	●	●	●	●	●	●	●	●	●	●
Diesel oil	●	●	○	○	●	●	○	●	○	○
Diethylene glycol	●	●	▸	●	●	○	▸	●	●	●
Disinfectants, see detergents										



Influence	Habasit Chemical Resistance Class									
	1	2	3	4	5	6	7	8	9	10
E										
Edible fats and salad oils	●	●	○	◐	●	●	●	●	◐	●
Essential oils	●	●	○	○	●	●	○	●	●	●
Ester	●	◐	○	◐	◐	○	○	●	●	●
Ether	●	●	○	○	●	●	○	●	●	●
Ethyl acetate	●	○	○	◐	○	○	○	●	●	●
Ethyl alcohol	●	●	○	●	●	○	●	●	●	●
F										
Fats	●	●	○	◐	●	●	●	●	◐	●
Fatty acids	●	●	●	◐	●	●	●	●	◐	●
Fatty alcohols	●	●	◐	●	●	○	◐	●	●	●
Fertilizers	●	●	●	●	●	●	●	●	●	●
Fish, fish waste	●	●	●	●	●	●	●	●	●	●
Formaldehyde	●	●	◐	●	●	○	◐	●	●	●
Formic acid	○	○	◐	◐	◐	○	◐	●	●	●
Fructose	●	●	●	●	●	●	●	●	●	●
Fruit juices	●	●	●	●	●	●	●	●	●	●
Fuel oil	●	●	○	○	●	●	◐	●	○	○
G										
Glacial acetic acid	○	○	○	◐	○	○	○	●	◐	●
Glucose	●	●	●	●	●	●	●	●	●	●
Glycerine	●	●	◐	●	●	●	◐	●	●	●
Glycol	●	●	◐	●	●	◐	◐	●	●	●
Glysantine	●	●	●	●	●	●	●	●	●	●
H										
Heptane	●	●	○	○	●	●	●	●	○	●
Hexane	●	●	○	○	●	●	●	●	○	●
Hydrocarbons, aliphatic	●	●	○	○	●	●	●	●	○	◐
Hydrocarbons, aromatic	●	○	○	○	○	◐	○	●	○	◐
Hydrocarbons, chlorinated	●	○	○	○	○	○	○	●	○	◐
Hydrochloric acid <20%	○	○	●	◐	◐	◐	●	●	◐	●
Hydrofluoric acid	○	○	◐	○	◐	○	◐	●	○	●
Hydrogen peroxide	◐	◐	●	◐	◐	◐	●	●	●	●
Hydroquinone	◐	◐	◐	◐	●	●	◐	●	◐	●
Hypochlorite (javelle water)	◐	○	◐	○	○	○	◐	●	○	●



Influence	Habasit Chemical Resistance Class									
	1	2	3	4	5	6	7	8	9	10
I										
Inks	●	●	●	●	●	●	●	●	●	●
Iodine	○	○	○	○	○	○	○	●	○	●
Isooctane	●	●	○	○	●	●	○	●	○	○
Isopropanol	●	●	○	●	●	○	●	●	●	●
J										
Javel water (javelle water/hypochlorite)	▶	○	▶	○	○	○	▶	●	○	●
K										
Kerosene	●	●	○	○	●	●	○	●	○	○
Ketones	●	○	○	▶	○	○	○	●	▶	▶
L										
Latex	●	●	●	●	●	●	●	●	●	●
Lemonades	●	●	●	●	●	●	●	●	●	●
Linseed oil	●	●	○	▶	●	●	○	●	▶	●
Liqueurs	●	●	●	●	●	●	●	●	●	●
M										
Margarine	●	●	○	▶	●	●	●	●	▶	●
Metal salts	●	●	●	●	●	●	●	●	●	●
Methanol	●	●	○	●	●	○	○	●	●	●
Methyl acetate	●	○	○	▶	○	○	○	●	●	●
Methyl ethyl ketone	●	○	○	▶	○	○	○	●	●	▶
Methylene chloride	●	○	○	○	○	○	○	●	○	▶
Milk	●	●	●	●	●	●	●	●	●	●
Mineral oils	●	●	○	○	●	●	▶	●	○	●
Molasses	●	●	●	●	●	●	●	●	●	●
Motor oils	●	●	○	○	●	●	○	●	○	●
Mustard	●	●	●	●	●	●	●	●	●	●
N										
Nitric acid < 40%	○	○	▶	○	▶	▶	▶	●	▶	●
Nitrocellulose thinners	●	○	○	○	○	○	○	●	○	○



Influence	Habasit Chemical Resistance Class									
	1	2	3	4	5	6	7	8	9	10
O										
Oils, mineral	●	●	○	○	●	●	▶	●	○	●
Oils, vegetable	●	●	○	▶	●	●	●	●	▶	●
Oxalic acid	●	●	●	●	●	●	●	●	●	●
Ozone	▶	○	●	●	○	●	●	●	●	●
P										
Palm oil	●	●	○	▶	●	●	●	●	▶	●
Paraffin oil	●	●	▶	○	●	●	▶	●	○	●
Peanut oil	●	●	○	▶	●	●	●	●	▶	●
Perfumes	●	●	●	●	●	●	●	●	●	●
Petrol	●	●	○	○	●	●	○	●	○	○
Petroleum ether	●	●	○	○	●	●	○	●	○	○
Phenol	○	○	○	○	▶	○	○	●	▶	▶
Phthalic acid	●	●	●	●	●	●	●	●	●	●
Plaster	●	●	●	●	●	●	●	●	●	●
Plasticizer	●	▶	○	○	▶	●	○	●	○	○
Potash lye	●	●	▶	▶	▶	▶	▶	●	▶	●
Potassium salts	●	●	●	●	●	●	●	●	●	●
Propanol	●	●	○	●	●	○	○	●	●	●
Proteins	●	●	●	●	●	●	●	●	●	●
R										
Resorcinol	○	○	●	○	●	○	●	●	▶	●
S										
Salicylic acid	●	●	●	●	●	●	●	●	●	●
Salt water	●	●	●	●	●	▶	●	●	●	●
Seawater	●	●	●	●	●	▶	●	●	●	●
Sewage	●	●	●	●	●	●	●	●	●	●
Soaps	●	●	●	●	●	●	●	●	●	●
Starch syrup	●	●	●	●	●	●	●	●	●	●
Stearic acid	●	●	●	●	●	●	●	●	●	●
Sugar	●	●	●	●	●	●	●	●	●	●
Sulfite waste liquors	●	●	●	●	●	●	●	●	●	●
Sulfuric acid <50%	○	○	▶	▶	▶	▶	▶	●	▶	●



Influence	Habasit Chemical Resistance Class									
	1	2	3	4	5	6	7	8	9	10
T										
Tallow	●	●	◐	◐	●	●	●	●	◐	●
Tanning agents	●	●	●	●	●	●	●	●	●	●
Tar	●	●	◐	○	●	●	◐	●	○	●
Tartaric acid	●	●	●	●	●	●	●	●	●	●
Tetrachloroethylene	●	○	○	○	○	○	○	●	○	◐
Toluene	●	○	○	○	○	◐	○	●	○	◐
Transformer oils	●	●	○	○	●	●	○	●	○	◐
Trichloroethylene	●	○	○	○	○	○	○	●	○	○
Turpentine oil	●	●	○	○	●	◐	○	●	○	○
U										
Urea	●	●	●	●	●	●	●	●	●	●
Urine	●	●	●	●	●	●	●	●	●	●
UV	◐	○	●	●	○	○	●	●	●	●
V										
Vaseline	●	●	◐	○	●	●	●	●	○	●
Vinegar	●	◐	●	●	◐	◐	●	●	●	●
W										
Wetting agents	●	●	●	●	●	●	●	●	●	●
Wine	●	●	●	●	●	●	●	●	●	●
X										
Xylene	●	○	○	○	○	◐	○	●	○	◐
Y										
Yeast	●	●	●	●	●	●	●	●	●	●

Product liability, application considerations

The proper selection and application of Habasit products, including the related area of product safety, is the responsibility of the customer.

All indications / information are recommendations and believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to their accuracy or suitability for particular applications. The data provided herein are based on laboratory work with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experiences can lead to modifications and changes within a short time without prior notice.

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