Series DEVO PRO II Farmer

RESISTANCE TO CHEMICALS

Since the aggressive agents in liquid or gas form can destroy the plastic parts of the lighting fixtures, increased attention must be paid to the selection of the proper materials. The following table will help in this selection. It contains the most frequently used chemicals.

CHEMICALS	PMMA diffuser	PC diffuser	GRP housing
ALCOHOLS Alcohol up to 30% Alcohol concentrate Methanol Glycerine Glycol	0 0 +++	housing +++ 0 0 ++ ++	+++ 0 0 +++ +++
AQUEOUS SOLUTIONS Sea water Hydrogen Peroxide up to 40% Hydrogen Peroxide over 40% Metal salts and their aqueous solution Salt solutions	0 0 .s.+++	+++ ++ ++ +++	+++ 0 0 +++
GASES Carbon dioxide Carbon monoxide		+++ +++	+++
HYDROCARBONS Benzene Diesel oil Petroleum Ether Aliphatic Hydrocarbons Aromatic Hydrocarbons	+++ +++	0 ++ ++ +++	0 +++ +++ ++
OILS Aniline Machine-tool oils Diesel oil Brake oil Flammable acid oils Camphor oil Lubricating oil Silicone oil Paraffin oil Saturated mineral oil	0 0 0 ++ ++	0 0 0 +++ 0 ++++ ++++ 0	0 +++ 0 +++ 0 +++ +++ +++

INORGANIC ACIDS Battery acid Bromic acid Hydrochloric acid up to 20% Hydrochloric acid over 20% Nitric acid up to 10% Nitric acid between 10% and 20%. Nitric acid between 10% and 20%. Nitric acid over 20% Sulphydric acid Sulphydric acid up to 50% Sulphuric acid up to 50% Sulphuric acid over 70% Sulphurous acid up to 5%	0 ++++ +++ 0 ++++ 0 ++++	PC diffuser housing +++ ++ ++ ++ +++ +++ +++ 0 0 0	GRP housing ++++ •++ •++ •++ •++ •++ •++ •++ • •+++
ORGANIC ACIDS Acetic acid up to 5% Acetic acid up to 30% Butyric acid Citric acid Lactic acid	0 0 ++	+++ ++ ++ +++	+++ +++ +++ +++
BASIC COMPOUNDS Ammonia 0,005% * Milk of lime Synthetic basic compounds Sodium hydroxide up to 2% Sodium hydroxide up to 10%	+++ +++ +++	0 ++ ++ 0	+++ +++ +++ 0
SOLVENTS Acetone Ketone Chlorofenol Chloroform Methylene Chloride Dioxane Ether Ethyl Acetate Phenol Methyl-ethyl ketone Turpentine Pyridine Carbon tetrachloride. Xylene	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 +++ 0 0 0 +++ 0 0 0 ++++ 0 0

Before selecting the product, please check the chemical environment for the lighting application. The above table refers to an ambient temperature of $25^{\circ}C\pm10^{\circ}C$. The chemical resistance is only valid if there are no mechanical effects, which may cause surface deformation, elongation or evolution of capillary cracks.

Legend:



resistant limited resistance not resistant

* Occupational Exposure Limit -EC (2000)

It is recommended to consult the manufacturer before any product is selected for potentially chemically aggressive applications.