

# CHEMICAL RESISTANCE LIST

Recommended       Fair       Good       Excellent

The boots testing for chemical protection is performed in a laboratory environment. Obviously, lab conditions are never the same as the real life situations or working conditions, therefore we strongly recommend to pay attention to chemicals typology and their concentration as well as keeping the boots in good state.

This figure is a heatmap illustrating the compatibility of various chemicals across different product series. The rows represent different chemicals and their concentrations, while the columns represent product series. A color scale from green to red indicates increasing compatibility.

**Legend:**

- Green: High compatibility
- Yellow: Moderate compatibility
- Red: Low compatibility

**Chemical Categories:**

- Acids:** Sulfuric acid (< 10%), Sulfuric acid (con.), Hydrochloric acid (< 10%), Hydrochloric acid (con.), Nitric acid (< 5%), Nitric acid (5 - 25%), Nitric acid (25 - 50%), Phosphoric acid (< 50%), Potassium trioxide (sol.)
- Organic Acids:** Acetic acid (< 10%), Acetic acid (< 20%), Acetic acid (con.), Propionic acid (sol.), Lactic acid (< 10%), Lactic acid (< 10%), Citric acid
- Alkalies:** Potassium hydroxide (< 5%), Potassium hydroxide (con.), Sodium hydroxide (sol.), Sodium hydroxide (sol.), Magnesium hydroxide (sol.), Calcium hydroxide (< 50%)
- Salt Solutions:** Potassium acetate, Potassium chloride, Potassium hydrogencarb., Potassium chloride, Potassium sulfide, Potassium trichloride, Potassium chloride, Potassium carbonate, Potassium chlorate, Potassium nitrate, Potassium permanganate, Potassium acetate, Potassium nitrate, Potassium carbonate, Potassium chloride, Potassium chlorate, Potassium fluoride, Potassium hypochlorite, Potassium sulfate, Potassium chloride, Potassium nitrate, Potassium chloride, Potassium sulfide

**Product Series:**

- GOMMAFORTE SERIES: WINNER, WINNER B, FARM, COUNTRY, FOREST, EVERGREEN, RIVER
- STYLE SERIES: BAUHAUS L, BAUHAUS S, ASCOT B, ASCOT S, ASCOT F
- ALL DAY SERIES: CALSIOCA, TRE BOTTONI, LYON, VICHY
- COMFORT SERIES: CHAMBERY, MICKI, MICHEL S, MELO, NDRI
- LOGIMAX SERIES: MAX PU, MAX PU B, MULTIMAX PU, MEGAMAX PU
- ACTION SERIES: SWORD, DAGGER, SHIELD, GUARD, MILKY, MORRY
- MUCK BOOT SERIES: TACK, WEAR, TYME, AVON, TAY, ESK, HUMMER

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This heatmap visualizes the presence of various chemical substances across different product series. The x-axis represents seven product series: GOMMAFORTE, STYLE, ALL DAY, COMFORT, LOGIMAX, ACTION, and MUCK BOOT. The y-axis lists 26 chemical substances, grouped into categories: Chemical Substance, Benzyl ether, Ethanol amine, Acetate, Methylphthalate, Diethylphthalate, Acetyl acetate, Methyl formate, Oils and Fats, Animal Oils and Fats, Aliphatic hydrocarbons, Aromatic hydrocarbons, Alcohols, Chlorinated Hydrocarbons, Aldehydes, Ketones, and Solvents.

The color scale indicates the presence level of each substance in each product series. Green represents low presence, yellow/orange represents moderate presence, and red represents high presence. The heatmap shows that certain substances like Benzyl ether and Ethanol amine are present in most product series, while others like Diethylphthalate and Acetyl acetate are more localized.

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