VegWax

TECHNICAL DATA SHEET (TDS) | Non-ionic Emulsifying Wax

Product Description

VegWax is a non-ionic, self-bodying emulsifying wax designed for oil-in-water (O/W) emulsions in cosmetic formulations. It supports emulsion formation and viscosity development in creams and lotions.

Parameter	Technical Information
Appearance	White pastilles
Primary function	General-purpose O/W emulsifier
Typical use level	2-3% for fluid emulsions; 5-10% for higher-viscosity emulsions
INCI	To be confirmed against the applicable ingredient declaration

Functional Properties

Provides emulsion structure and viscosity without a separate neutralisation step. Demonstrates tolerance to electrolytes and suitability for formulations in both acidic and alkaline environments. Formation of lamellar liquid-crystalline structures can help stabilise emulsions and support gradual moisture release.

Formulation Guidance

At 2-3%, typically suitable for fluid emulsions; complementary non-ionic, anionic or cationic emulsifiers may be used where needed. At 5-10%, higher-viscosity emulsions can be formulated without necessarily adding other surfactants, fatty alcohols or waxes. Compatible oil-phase candidates include commonly used plant and mineral oils, esters, ethers, fats and waxes. Verify stability and compatibility in each finished formulation.

Potential Applications

Moisturising creams and lotions, aftersun products, self-tanning products, AHA/BHA creams, baby-care emulsions, antiperspirant and deodorant products, as well as selected hair-care systems. Intended applications require appropriate finished-product evaluation.

Thermal Performance

Technical performance data indicate resistance to exposure at 150 degrees C for two hours, with possible minor colour change, approximately 2-3% weight loss and some hardening. This observation is not a recommended manufacturing temperature.

Safety and Documentation

The material is described in technical literature as having low irritation potential for skin and eyes. This does not replace a current Safety Data Sheet (SDS), relevant ingredient declarations or a finished-product safety assessment. This TDS does not establish a verified INCI composition, melting range, pH specification, shelf life, storage parameters or batch-specific acceptance limits; confirm these separately before regulatory use.