



# VELDEN

**Velden (Pty) Ltd**  
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[www.veldenbotanicals.com](http://www.veldenbotanicals.com)

## **Product Sheet.**

### ***NatSol™ Sun protection compound***

Velden NatSol™ is a precision-engineered, standardized, and purified complex combining rosehip, Aloe ferox, baobab botanicals with micronized zinc oxide to deliver broad-spectrum UV protection plus post-sun repair in one integrated system. In sun exposure, the zinc oxide layer provides a physical shield (reflecting, scattering, and absorbing UVA/UVB) while the botanicals act as secondary photoprotectants, antioxidants, and repair boosters. During and after UV stress, the blend mitigates oxidative damage, supports barrier recovery, and soothes inflammation. Its standardized formulation ensures batch consistency and minimized pro-oxidant residues, making it suitable for stable sunscreen/emulsion systems. NatSol™ is designed for cosmetic developers aiming to deliver a high-performance “sun + heal” proposition in one elegant INCI stack.

#### **Key actives & efficacy:**

- **Micronized / nano Zinc Oxide (ZnO):**
  - Mode of action: a physical (inorganic) UV filter that blocks both UVA and UVB by reflection, scattering, and absorption.
  - Additional functionality: zinc has known anti-inflammatory, redness-suppressing, and wound-healing modulation roles (inhibiting NF-κB, iNOS, and reducing cytokine release) which help soothe UV-induced erythema.
  - In formulation: ZnO is photostable, nonallergenic, and noncomedogenic, making it a reliable anchor for a broad-spectrum protective foundation.
- **Unsaturated Fatty Acids & Antioxidants from Rosehip:**
  - Rosehip oil / seed fractions are rich in linoleic acid, α-linolenic acid, oleic acid and also antioxidants (tocopherols, carotenoids, phenolic acids) that reduce UV-associated damage and hyperpigmentation.
  - Efficacy: Several studies show that these fatty acids and antioxidant cofactors help reduce oxidative stress in skin, support barrier replenishment post-exposure, and counteract pigmentation.
- **Polysaccharides / Glycans and Bioactive Phytochemicals from Aloe ferox:**
  - Aloe extracts have been shown to protect keratinocytes & intracellular organelles from UVA photodamage by maintaining membrane integrity and increasing lysosomal stability, thereby reducing cell death and phototoxic stress.
  - In context of NatSol™, Aloe polysaccharides and cofactors act as cellular shields, helping reduce UV-mediated damage, stabilize skin structures under stress, and accelerate post-sun recovery.

#### **Aloe Ferox Origin Story**

##### **Aloe Ferox: The Desert's Healer, The Skin's Guardian**

Beneath the relentless African sun, Aloe Ferox stands tall with its fierce, spined leaves storing life in a place where almost nothing else survives. This wild aloe has learned the art of endurance: protecting its own cells from scorching UV rays, dehydration, and oxidative stress through a potent arsenal of aloesin, polysaccharides, and amino acids.



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It's this same defensive intelligence that makes Aloe Ferox extraordinary for the skin. Its complex sugars form a natural moisture shield that strengthens the skin barrier, while aloesin actively inhibits UV-induced pigmentation and reduces inflammation triggered by sun exposure. Antioxidants and essential amino acids further accelerate cellular repair, helping skin recover from daily damage and restore its calm, supple resilience. Harvested sustainably from the sun-drenched landscapes of the Eastern Cape, Velden's purified Aloe Ferox extract captures the plant's innate survival chemistry and transforms it into a scientifically proven shield for modern skin. Born under the African sun, it now protects you from it.

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