

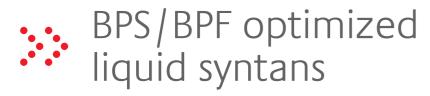
TANIGAN®

Opportunities and advantages with new liquid syntans

>> Quality, sustainability, regulatory and other benefits



TANIGAN®







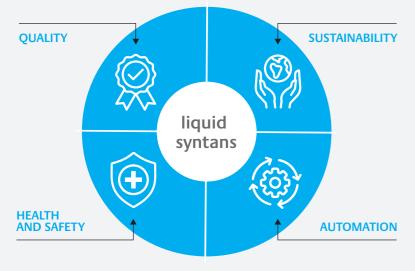


TFL is the world's top performing leather chemicals supplier, exclusively focused on, and dedicated to, natural leather!

TFL supports our tannery customers to success with environmentally sound solutions for their processes and products.

We are also proud to hold the number one spot in multiple sectors, including in wet end syntans. Many tanneries around the world have traditionally handled powder syntans. Today, liquid syntans are increasingly meeting the latest market needs.

Changing from powder syntans to liquid syntans offers many additional benefits besides meeting the latest regulatory challenges:



Quality

- → Less salt, giving better dye levelness and more stable fatliquoring, consistent waterproofing
- → Easier and better chemical distribution in drums
- → No risk of product "caking" over time

Sustainability

- → Lower energy consumption during manufacture, thus significantly lower CO₂ footprint
- → Less salt resulting in reduced salinity in the wastewater treatment plant
- → Reduced water, energy and chemical costs

Health and safety

- → No lifting of heavy bags or dust exposure
- → No human contact to chemicals
- → No waste / spillage of chemicals

Automation

- → Ideal for automatic metering and dosing systems
- → Accurate dosing perfect reproducibility
- → No leather damage or reprocessing due to process errors

A number of low BPS and BPF liquid syntans are now available to meet the requirements not only of today but also those in the foreseeable future.

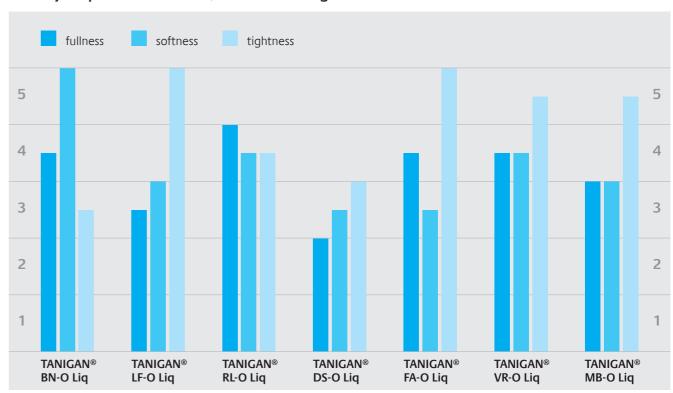
Now is the time to make the change and reap the rewards available!

The Properties

name	main focus	fullness	softness	tightness	color yield	light fastness	heat yellowing	BPS + BPF (in ppm)
TANIGAN® BN-O Liq	very soft and mellow	3-4	5	2-3	3	Good	Moderate	< 1,000
TANIGAN® LF-O Liq	tight, flat and smooth	2-3	3	5	3-4	Very good	Very good	< 500
TANIGAN® RL-O Liq	very full, soft and round	4	3-4	3-4	2	Moderate	Moderate	< 1,000
TANIGAN® DS-O Liq	firm, tight and dispersing	2	2-3	3	3	Moderate	Moderate	< 100
TANIGAN® FA-O Liq	firm, full and tight grain	3-4	2-3	5	4	Moderate	Moderate	< 500
TANIGAN® VR-O Liq	tight and soft, ideal for milling	3-4	3-4	4-5	4	Good	Good	< 500
TANIGAN® MB-O Liq	tight, soft, very good tanning and fastness	3	3	4-5	5	Very good	Good	< 20

Key: 1 = low, 5 = high

The Key Properties of Fullness, Softness and Tightness at a Glance







The Product Introduction

TANIGAN® BN-O Liq:

The ideal replacement syntan for very soft and round leather with a high degree of filling and excellent tanning

- → very low residual monomer content, including free formaldehyde and BPS / BPF (<0.1%)
- → good milling performance

TANIGAN® LF-O Liq:

The ideal syntan for tight, flat "not plumped" smooth grain leather articles

- → very low residual monomer content, including free formaldehyde and BPS / BPF (<0.05%)
- → high degree of whiteness with very good light fastness

TANIGAN® RL-O Liq:

Syntan for very soft, round and full leather with excellent tanning properties

- → very low residual monomer content, including free formaldehyde and BPS / BPF (<0.1%)
- → treated leather has good degree of whiteness and light fastness with moderate heat yellowing

TANIGAN® DS-O Liq:

Syntan with pronounced dispersing properties applied in combination with other syntans and vegetable tannins

- → very low residual monomer content, including free formaldehyde and BPS / BPF (<0.01%)
- → treated leather is firm, with a fine tight grain due to low astringency, with full round handle

TANIGAN® FA-O Liq:

The ideal product for firm, compact and tight leather articles

- → very low residual monomer content, including free formaldehyde and BPS / BPF (<0.05%)
- → 49% bio-content
- → highly suitable for retanning waterproof articles e.g., military or Timberland type

TANIGAN® VR-O Liq:

The ideal syntan for milling, combines tightness with good filling and softness

- → very low residual monomer content, including free formaldehyde and BPS / BPF (<0.05%)
- → 24% bio-content
- → good fastnesses to light and heat thus recommended for automotive articles

TANIGAN® MB-O Liq:

The ideal replacement syntan for tight, soft leather, equally suitable for white, and due to high colour yield, also dyed leather with brilliant shades

- → "next generation" ultra low residual monomer content including free formaldehyde and BPS / BPF (<0.002%) leading to "non-detectable" bisphenol results in leather
- → high "tanning power" highly suitable for pretanning, tanning and retanning wet white, and retanning wet blue
- → excellent fastness properties including light fastness and heat resistance