



# Why COSM™?

#### **Our DNA**

Sustainability and responsible manufacturing processes have been at the core of our business model since LITE's inception in 2003. We built on this foundation with a separate division,  $COSM^{TM}$ , to further explore biobased materials.  $COSM^{TM}$  focuses on the development and production of new sustainable materials.

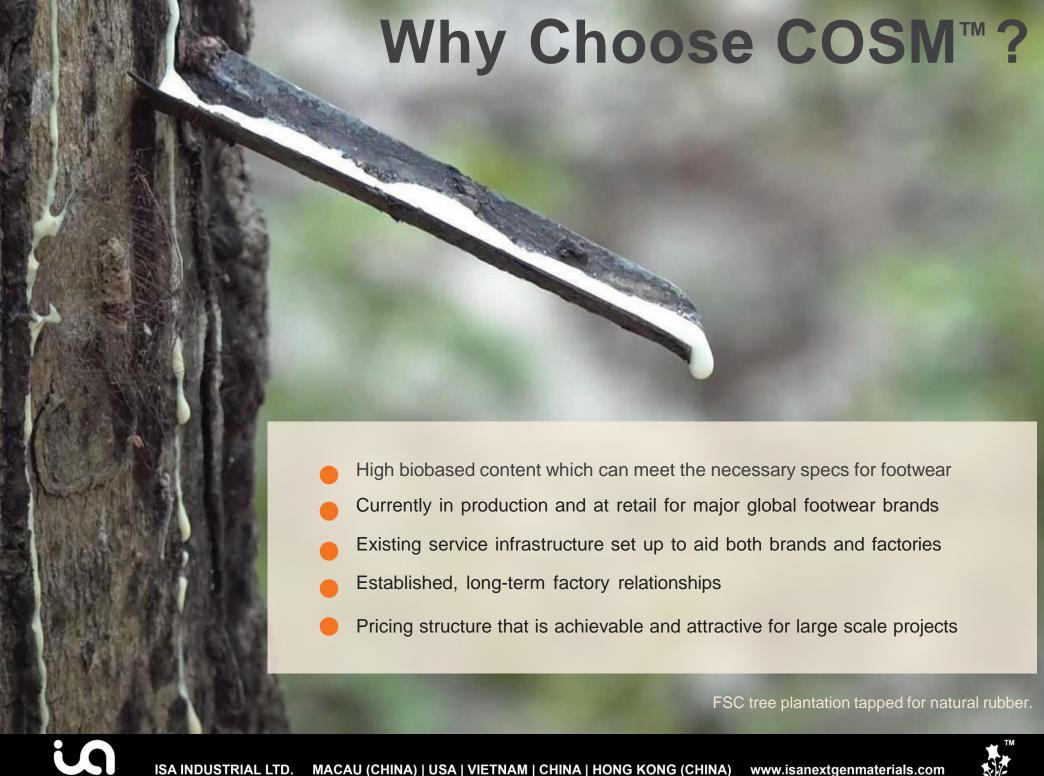
#### **Our Commitment**

- 1. Utilize plant based materials which are biodegradable
- 2. Ability to replace petrochemical based synthetics
- 3. Production of COSM™ materials with circularity in mind

#### **Your Benefits**

Reducing your brand's use of petro-based chemicals is not the only reason to choose one of our biobased COSM™ materials. We offer the same infrastructure for our biobased materials as our full grain leather division. Our COSM™ materials are fully scalable for production in a wide range of color and weight options. We always offer Quality, Reliability, Compliance, Service.





# The Elephant in the Room



The term "Vegan Leather" which is an oxymoron itself has increased in popularity. Many of those materials are advertised as environmentally friendly. However, these contain plastics. In contrast to genuine leather, vegan leather is one of the biggest threats to our planet. As an alternative to petro-based vegan leathers, our COSM™ materials offer another option to materials that can cause harm to our ecosystem.

# **Features**

## **COSM™** Features

#### USDA Certified Biobased

The plant based components in our COSM™ materials are completely natural and allow the product to be classified as bio-based. The biobased content has been 3rd party certified by the USDA. Documentation in progress.

\*biobased content varies by article

#### Regenerative

The regenerated cellulosic fibers are certified according to Okeo-Tex and TUV Austria OK scheme for biodegradability in soil, water and marine environments.

#### Biodegradable

All natural components of our COSM™ Materials have been carefully selected in order to achieve biodegradability.

#### FSC Certified

All natural rubber, pulp & fiber units are Forest Stewardship Council certified with leading sustainable forestry practices stressing responsible sourcing of raw material from forests.

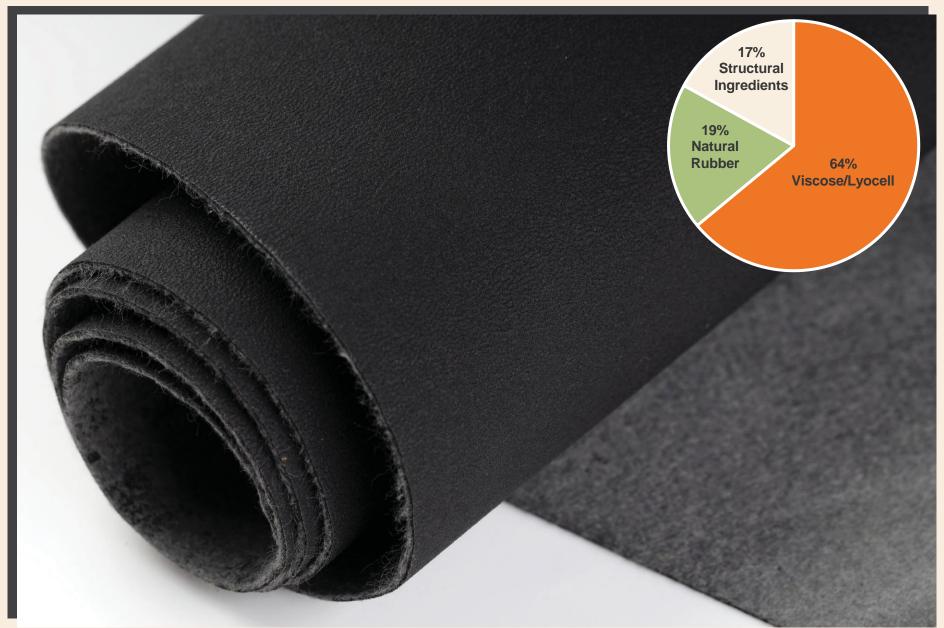


# **The Products**

# HyphaLite<sup>™</sup> TC NatraLite TerraLite

# **HyphaLite<sup>™</sup> TC**





# **HyphaLite<sup>™</sup> TC**





# **HyphaLite<sup>™</sup> TC**





# **NatraLite**







## **NatraLite**





# **NatraLite**

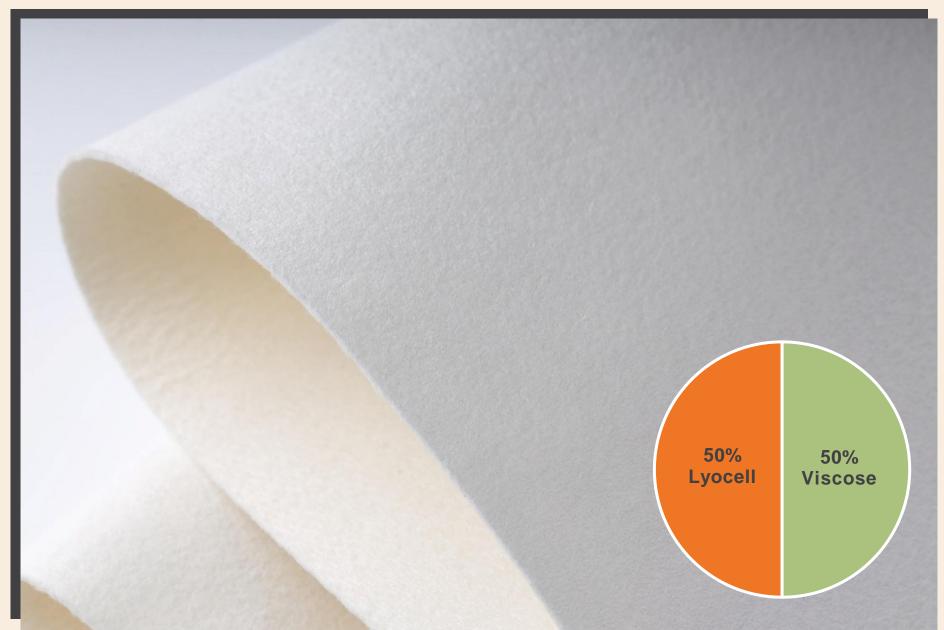






# **TerraLite**







## **TerraLite**





# **TerraLite**







# Ordering & Colors

# Ordering Info



#### 1. Material

HyphaLite™ TC NatraLite TerraLite TerraLite Antiqued



#### 2. Texture

Smooth Embossed Milled



3. Color

See Color Palette



#### 4. Thickness

0.9-2.2mm \* 0.4mm thickness range

\* varies based on material



5. MOQ

Sample: none Production: 1,500 sqf.



#### 6. Lead Time

Sample: 2 weeks Production: 4 weeks





## **Color Palette**





### Partner with Us

ISA TanTec is proud to offer specialized, creative marketing and co-branding services. Our in-house marketing team can work with you to create visually striking and informative digital and on-product sales tools. These complimentary services will ensure the best possible message resonates with your consumer.

#### **Social Media**



**Box Inserts** 



#### **Web Banners**



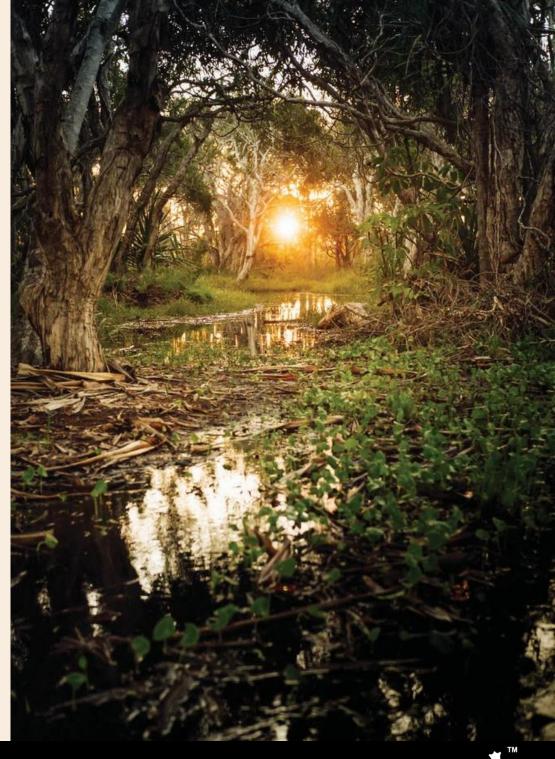
Hang Tags





# **Looking Ahead**

As we look to the future, our COSM™ division will continue to develop innovative, natural materials with a focus on sustainability and reducing the reliance of petrol-chemical based synthetics. Stayed tuned for future developments in this exciting area.





# **Specifications**

## HyphaLite<sup>™</sup> TC Spec

#### **Additional Material Lab Test Specification**

7	Test Code	007 A0	Date	08/24/22	End User	ISA TanTec
Prod	Product Name HyphaLite™ TC				Color	All
ID	Property / D	Description		Test Method	Units	Requirement
12	Thickness of Leather and Insole Materials			SATRA TM1	mm	As specified 1.1 (+/- 0.2) or 2.0 (+/- 0.2)
612	Tear Strength-Trouser Leg Method			SATRA TM30	KG	[1.1 mm = min. 1.8] / [1.6 mm = min. 2.1] [2.0 mm = min. 2.5]
609	Breaking Strength			SATRA TM29	KG/CM	[1.1mm=min. 5.0] / [1.6mm=min. 7.5] [2.0mm=min. 10.0]
611	Extension at Break			SATRA TM29	%	min. 30 / max. 80
15	Lastometer Ball Burst Test - Grain Crack Point – Distension			SATRA TM24	mm	min. 8.0
274	Vamp Flex – Dry			SATRA TM25	CYCLE	500,000 - not worse than slight crack
273	Vamp Flex – Wet			SATRA TM25	CYCLE	100,000 - not worse than slight crack
4	Crockmeter Test – Dry			SATRA TM167	GSS RATING	min. 3
5	Crockmeter Test – Wet			SATRA TM167	GSS RATING	min. 2
104	Light Fastness			ASTM D1148	GSC RATING	Sunlamp 300 W - 48 hours - 50 C min. 3.5
62	Water Vapor Permeability			ISO 14268 (5.2 -Option C)	mg/ (cm2.h)	min. 2.0
35	Color Fastness to Water – Grain			SATRA TM335	GSS RATING	min. 2.5
36	Color Fastness to Perspiration – Flesh			SATRA TM335	GSS RATING	min. 2.5
672	Abrasion Resistance - Taber Method			SATRA TM163	% mass Loss	CS-17 wheel, 500 g/arm, 200 cycles max. 0.3
637	Vamp Flex after Hydrolysis			SATRA TM344/25	CYCLES	7 days, 70 C, > 95% R.H. 100,000 Dry - not worse than slight crack

### NatraLite Spec

#### **Additional Material Lab Test Specification**

Т	est Code	009 A0	Date	09/26/22	End User	ISA TanTec
Produ	Product Name NatraLite				Color	All
ID	Property / D	Description		Test Method	Units	Requirement
12	Thickness of Leather and Insole Materials			SATRA TM1	mm	As specified 1.1 (+/- 0.2) or 1.6 (+/- 0.2)
612	Tear Strength-Trouser Leg Method			SATRA TM30	KG	[1.1 mm = min. 1.8] / [1.6 mm = min. 2.1]
609	Breaking Strength			SATRA TM29	KG/CM	[1.1mm=min. 5.0] / [1.6mm=min. 7.5]
611	Extension at Break			SATRA TM29	%	min. 30 / max. 80
15	Lastometer Ball Burst Test - Grain Crack Point – Distension			SATRA TM24	mm	min. 7.0
274	Vamp Flex – Dry			SATRA TM25	CYCLE	500,000 - not worse than slight crack
273	Vamp Flex – Wet			SATRA TM25	CYCLE	100,000 - not worse than slight crack
637	Vamp Flex after Hydrolysis			SATRA TM344/25	CYCLES	7 days, 70 C, > 95% R.H. 100,000 Dry - not worse than slight crack
4	Crockmeter Test – Dry			SATRA TM167	GSS RATING	min. 3.0
5	Crockmeter Test – Wet			SATRA TM167	GSS RATING	min. 2.0
62	Water Vapor Permeability			ISO 14268 (5.2 -Option C)	mg/ (cm2.h)	min. 5.0
35	Color Fastness to Water – Grain			SATRA TM335	GSS RATING	min. 3.0
36	Color Fastness to Perspiration – Flesh			SATRA TM335	GSS RATING	min. 3.0
672	Abrasion Resistance - Taber Method			SATRA TM163	% mass Loss	CS-17 wheel, 500 g/arm, 200 cycles max. 0.3
603	Leather – Test for Adhesion of Finish – Dry			ISO 11644(IUF 470)	N/CM	min. 10
604	Leather – Test for Adhesion of Finish – Wet			ISO 11644(IUF 470)	N/CM	min. 4

### TerraLite Spec

#### **Additional Material Lab Test Specification**

	Test Code	006 A0	Date	07/21/22	End User	ISA TanTec
Prod	Product Name TerraLite				Color	All
ID	ID Property / Description			Test Method	Units	Requirement
12	Thickness of Leather and Insole Materials			SATRA TM1	mm	As specified 1.1 (+/- 0.2) or 2.0 (+/- 0.2)
612	Tear Strength-Trouser Leg Method			SATRA TM30	KG	Thickness 1.1 mm = min. 1.8 1.6 mm = min. 2.1 2.0 mm = min. 2.5
609	Breaking Strength			SATRA TM29	KG/CM	Thickness 1.1 mm = min. 5.0 1.6 mm = min. 7.5 2.0 mm = min. 10.0
611	Extension at Break			SATRA TM29	%	min. 30 / max. 80
274	Vamp Flex – Dry			SATRA TM25	CYCLE	500,000 - No crack
273	Vamp Flex – Wet			SATRA TM25	CYCLE	100,000 - No crack
4	Crockmeter Test – Dry			SATRA TM167	GSS RATING	min. 3.5
5	Crockmeter Test – Wet			SATRA TM167	GSS RATING	min. 3
104	Light Fastness			ASTM D1148	GSC RATING	Sunlamp 300 W - 48 hours - 50 C min. 3.5
35	Color Fastness to Water – Grain			SATRA TM335	GSS RATING	min. 3
62	Water Vapor Permeability			ISO 14268 (5.2 -Option C)	mg/ (cm2.h)	min. 10.0
75	Softness			IUP36	mm	Thickness 1.1 mm = 6.0 (+ / - 0.5) @ 35 mm aperture 2.0 mm = 3.5 (+ / - 0.5) @ 35 mm aperture

# Certifications



The importance of 3rd party auditing and certifications is paramount for all materials developed for the COSM™ division. Below are the highlights for our 3rd party certifications. All 3rd party certifications can be forwarded upon request.

#### **Raw Material Certifications**

Viscose/Lyocell and Natural Rubber (HyphaLite™ TC)







#### Life Cycle Analysis

An LCA will be conducted on our COSM™ materials and the initial groundwork has been done.

#### Facility Rating

Our COSM™ materials are manufactured in our TransAsia TanTec facility which is Higg FEM and ISO 14001 certified.

#### **USDA Biobased Ratings**

HyphaLite<sup>™</sup> TC and TerraLite are USDA rated 100% biobased. NatraLite is rated 87% biobased. Documentation in progress.



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