



ISA nextgenmaterials


3rd edition






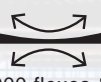
A collection of leathers built tough, for a variety of tough jobs.






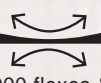
ISA WORKS



ARTICLE LIST

- 
- | | |
|----------------------------|------------------------------|
| 1 AR Crisscross WP EN | 19 Outback WP |
| 2 Barrier WP SS | 20 Overlord WP EN |
| 3 Bicentennial EN | 21 Regiment WP EN |
| 4 Breathe Easy WP EN SS | 22 Rejuvenate Washable |
| 5 Chill WP EN | 23 Riptide Galloper WP EN SS |
| 6 Connection WP EN | 24 Roadrunner WP |
| 7 Cool WP EN | 25 Roadrunner WP Smooth |
| 8 Discovery WP SS Washable | 26 Saddleback WP EN |
| 9 Fischer WP | 27 Sanehorse LO WP EN |
| 10 Green Bay WP #93 | 28 Shazam Washable |
| 11 Horley EN | 29 Snowplow WP SS |
| 12 Iceberg WP SS | 30 Tailgate WP EN |
| 13 Krakatoa WP EN | 31 Tomahawk WP EN |
| 14 Lore WP SS | 32 Tumbled Moonbeam WP |
| 15 Maiden WP EN | 33 Voltan WP SS |
| 16 Maldova WP 83 EN | 34 Whirlpool WP SS |
| 17 Manitou WP EN SS | 35 Workhorse WP EN |
| 18 Muddy River WP EN | |

FEATURES	 SPR / Barnyard	 Saline Solution	 EN Safety <i>Must be $\geq 1.8\text{mm}$</i>	 Washable	 IR Surface Reflecting	 25,000 flexes & Abrasion
TEST METHOD	ISA014-2016-A0	ISA INTERNAL	ISO20345:2011	ISO 105 C06 A15	ISO17502	SATRA TM34 & TM163
TEST METHOD DESCRIPTION	Samples of leather are exposed to selected chemicals found in harsh environments for 5 days. The effects on the leather grain and finish are assessed after repeated flexing. (Only WP leathers can pass the chemical attack spec)	Samples of leather are tested against water resistance, using the maeser flex test, with a 36% salt solution for 15,000 cycles. Water absorption rate is assessed. Cleanability by rub fastness test after samples are dry is assessed.	Water vapour permeability, water vapour absorption, pH value, tear strength, water penetration, water absorption (only WP leather) and chromium VI content are determined.	Samples of leather are washed following the standard conditions (A1S), color change and shrinkage is assessed after drying.	Measure the reflectance of the leather sample at a specific wavelength (900nm) using a spectrophotometer.	Determine the resistance of a material to water penetration upon flexing & taber abrasion H-22, 500g, 75 cycles.
1 AR Crisscross WP EN	●		●			
2 Barrier WP SS		●				
3 Bicentennial EN			●			
4 Breathe Easy WP EN SS		●	●			
5 Chill WP EN			●		●	
6 Connection WP EN	●		●			
7 Cool WP EN			●		●	
8 Discovery WP SS Washable		●		●		
9 Fischer WP	●					
10 Green Bay WP #93	●					●
11 Horley EN			●			
12 Iceberg WP SS	●	●				
13 Krakatoa WP EN	●		●			
14 Lore WP SS		●				
15 Maiden WP EN	●		●			
16 Maldova WP 83 EN	●		●			
17 Manitou WP EN SS	●	●	●			
18 Muddy River WP EN	●		●			

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19 Outback WP	●					
20 Overlord WP EN	●		●			
21 Regiment WP EN	●		●			
22 Rejuvenate Washable				●		
23 Riptide Galloper WP EN SS	●	●	●			
24 Roadrunner WP	●					●
25 Roadrunner WP Smooth	●					●
26 Saddleback WP EN	●		●			
27 Sanehorse LO WP EN	●		●			
28 Shazam Washable				●		
29 Snowplow WP SS	●	●				
30 Tailgate WP EN	●		●			
31 Tomahawk WP EN	●		●			
32 Tumbled Moonbeam WP	●					●
33 Voltan WP SS	●	●				
34 Whirlpool WP SS		●				
35 Workhorse WP EN	●		●			

ISA PFC FREE WATERPROOF LEATHERS SINCE 2014



Per- and Poly-fluorinated chemicals (PFCs) are famous for their function of water and dirt repellency and have been widely used for outdoor products. However, PFCs are known to be toxic, bioaccumulative and persistent in the environment. They are not easily broken down and will disperse over the globe gradually.

Since PFCs are hazardous to human health and the environment, Greenpeace has carried out product testing investigation and the results revealed that Ionic and Volatile PFCs were widely present in many outdoor products.

While ISA strives to produce premium performance leather, the company stresses on environmental sustainability and ensures all products are free from PFCs (PFC-Free). This includes all Ionic and Volatile per/poly fluorinated compounds.

ISA LITE® Concept defines a high standard of environmental responsibility in the manufacturing process. Every ISA product has passed strict testing requirements and are all in accordance with the latest regulations and laws globally. Thus, among the 32 kinds of PFCs targeted by Greenpeace, none would be detected in our products.





AR Crisscross WP EN

01

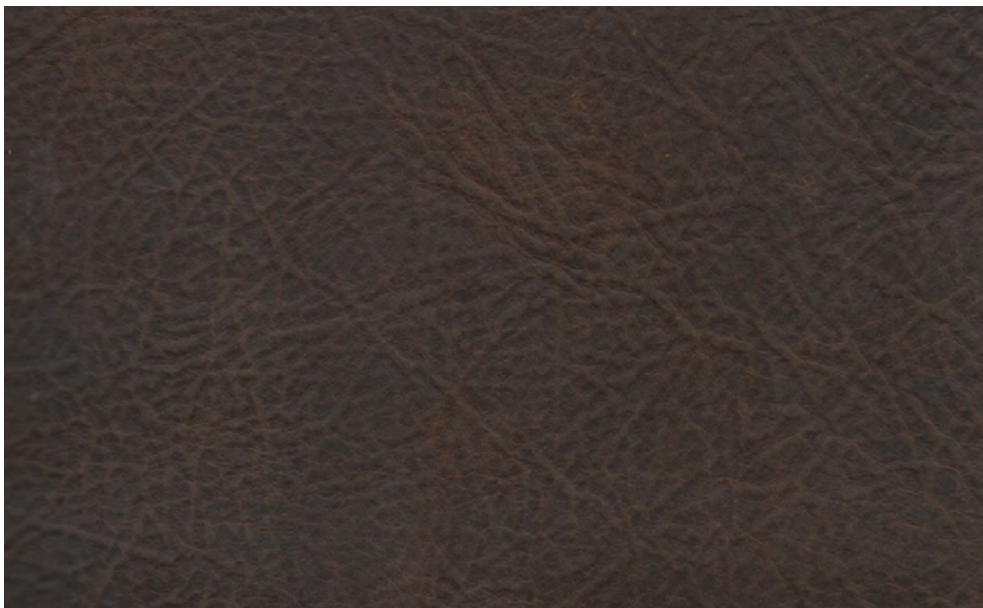
The interesting texture of Crisscross WP reminds you of grassy fields and is perfect for boots to wear on the farm.



SPR / Barnyard



EN Safety
Must be $\geq 1.8\text{mm}$



Weight Range: 1.2-2.2mm

Oil Content: Max 20%

NWP Version: Crisscross*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%

Belgian

02

Barrier WP SS



A soft tempered leather with a subtle, rubberized surface feel. Barrier WP SS is a waterproof, salt resistant leather that will hold up in the toughest conditions.



Saline Solution



Weight Range: 1.2-1.8mm

Oil Content: Max 12%

NWP Version: Barrier*

**NWP version will not pass SS*

Color Range: Light to Dark

SATRA: 85%

Timeless Taupe

Bicentennial EN

A heritage leather with a waxed surface and rich feel and great depth of color.

03



Weight Range: 1.2-1.8mm

Oil Content: Max 18%

WP Version: Not Available

Color Range: Med to Dark

SATRA: 85%

Cymbal



EN Safety
Must be $\geq 1.8\text{mm}$

04

Breathe Easy WP EN SS

A smooth, clean surface in a high performance leather. Breathe Easy WP is a waterproof, breathable leather that dries quickly and also passes our Saline Solution spec. Truly, a high performance leather.



Saline Solution



EN Safety

Must be $\geq 1.8\text{mm}$



Leather Brown

Weight Range: 1.2-2.0mm

Oil Content: Max 14%

NWP Version: Could be developed*

**NWP version will not pass SS*

Color Range: Med to Dark

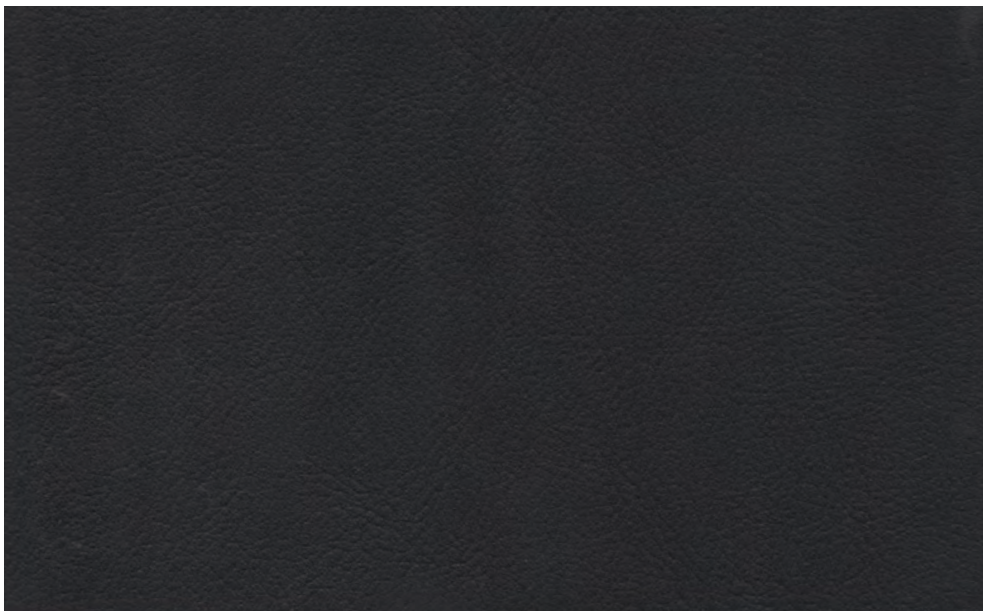
SATRA: 85%



Chill WP EN

05

Our Cool technology refracts UV rays, allowing the surface of the leather to remain cooler. Chill has a clean look and a soft hand.



Black

Weight Range: 1.2-1.8mm

Oil Content: Max 12%

NWP Version: Chill

Color Range:
Black & Dark Brown only

SATRA: 85%



EN Safety
Must be $\geq 1.8\text{mm}$



IR Surface
Reflecting



06

Connection WP EN



As a core ISA tannage, Connection is an ISA Flagship and a staple for all outdoor, work, and rugged footwear collections.



SPR / Barnyard



EN Safety

Must be $\geq 1.8\text{mm}$



Weight Range: 1.2-2.2mm

Oil Content: Max 20%

NWP Version: Connection*

**NWP version will not pass SPR*

Color Range: Dark colors only

SATRA: 80%

For medium colors, order Saddleback WP EN with 85% SATRA.

Mink Oil



Cool WP EN

07

Cool Technology keeps the leather surface cooler by refracting UV Rays. An essential need for all outdoor footwear. Limited to Black and Dark colors only.



Black

Weight Range: 1.8-2.2mm

Oil Content: Max 12%

NWP Version: Cool

Color Range:
Black & Dark Brown only

SATRA: 85%



EN Safety
Must be $\geq 1.8\text{mm}$



IR Surface
Reflecting



08

Discovery WP SS Washable



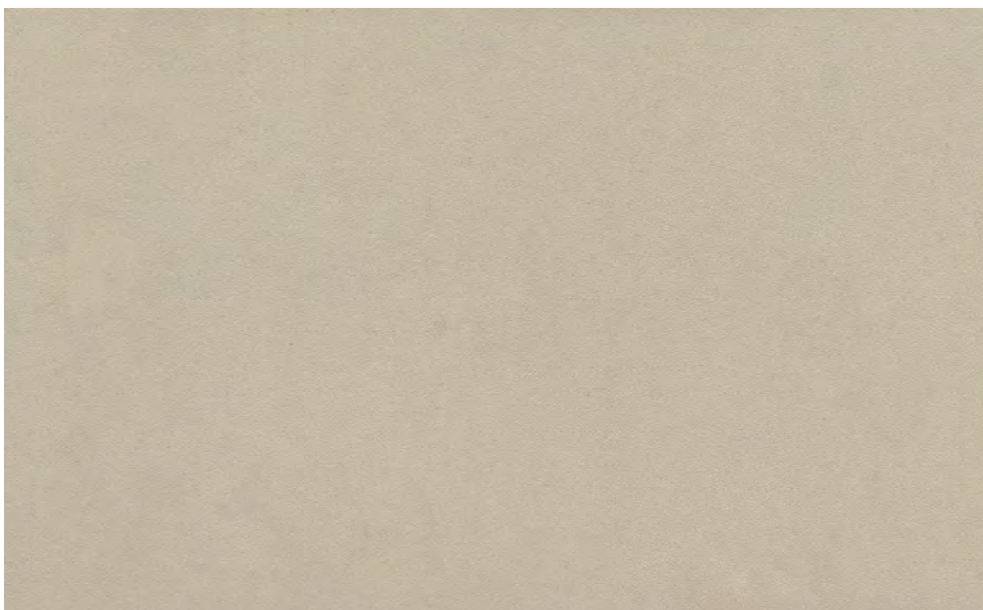
Discovery WP SS Washable is a powerhouse performance leather passing multiple specifications for: Waterproof, Saline Solution and Washable all in one.



Saline Solution



Washable



Weight Range: 1.2-2.0mm
Oil Content: Max 10%
NWP Version: Not Available
Color Range: Light to Dark
SATRA: 85%

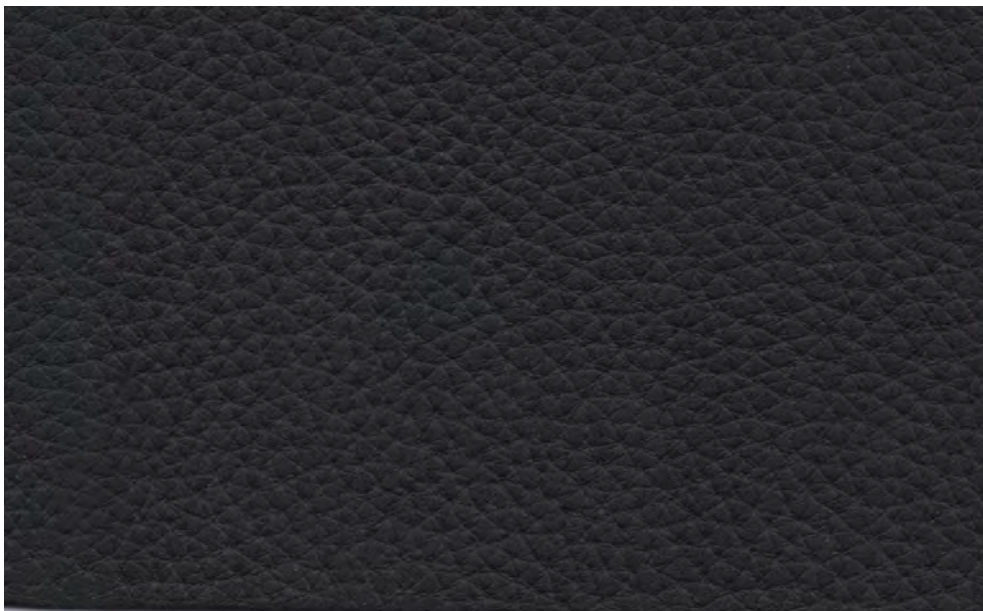
Fog



Fischer WP

09

A tough looking performance leather suitable for all workboot applications.



Black

Weight Range: 1.6-2.0mm

Oil Content: Max 18%

NWP Version: Fisher*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard

10

Green Bay WP #93



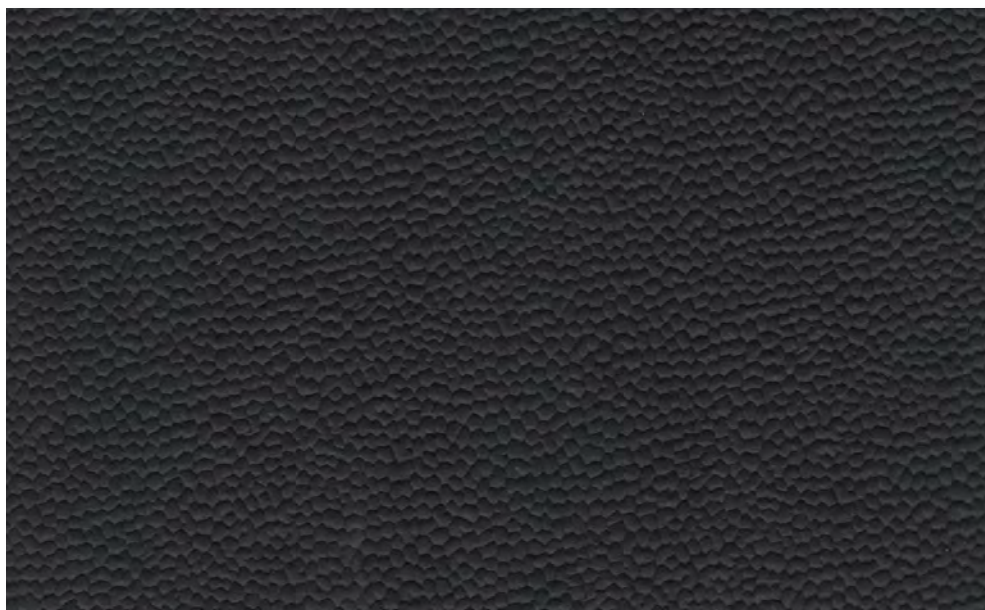
Extreme performance reaching 25,000 maeser flexes and enhanced durability.



SPR / Barnyard



25,000 flexes &
Abrasion



Black

Weight Range: 1.2-2.0mm

Oil Content: Max 10%

NWP Version: Always WP

Color Range: Light to Dark

SATRA: 85%

Horley EN

11

A rugged, oiled leather perfect for any work application.
A tough and durable option with a lot of character.



Dark Brown

Weight Range: 1.2-2.2mm

Oil Content: Max 16%

WP Version: Could be developed

Color Range: Dark colors only

SATRA: 80%

*For medium colors, order Horley 85 EN
with 85% SATRA.*



EN Safety
Must be $\geq 1.8\text{mm}$

12

Iceberg WP SS



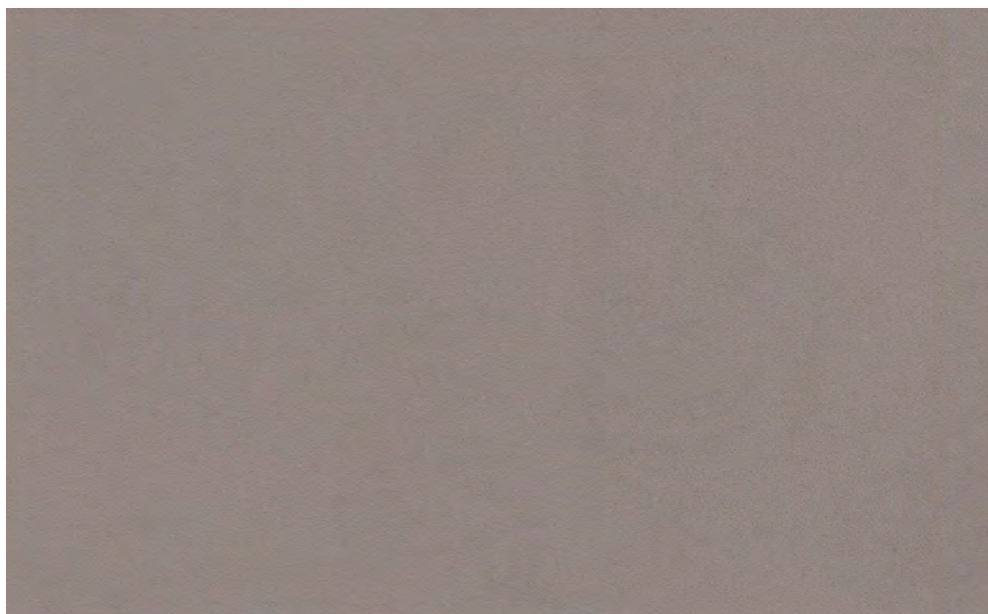
Iceberg WP is a smooth, clean leather with an almost rubberized surface feel. Perfect for outdoor performance products.



SPR / Barnyard



Saline Solution



Weight Range: 1.0-1.8mm

Oil Content: Max 14%

NWP Version: Iceberg*

**NWP version will not pass SPR / SS*

Color Range: Light to Dark

SATRA: 85%

Dove



Krakatoa WP EN

13

A very bold texture with an oily feel and sharp pull up. Krakatoa WP is perfect for tough work or western boots.



Bruin

Weight Range: 1.2-2.2mm

Oil Content: Max 20%

NWP Version: Biker*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



EN Safety
Must be $\geq 1.8\text{mm}$

14

Lore WP SS



A soft, aniline leather that is breathable and passes Gore-Tex standards for wicking and MVTR breathability.



Saline Solution



Black

Weight Range: 1.2-1.6mm

Oil Content: Max 12%

NWP Version: Lore*

**NWP version will not pass SS*

Color Range: Med to Dark

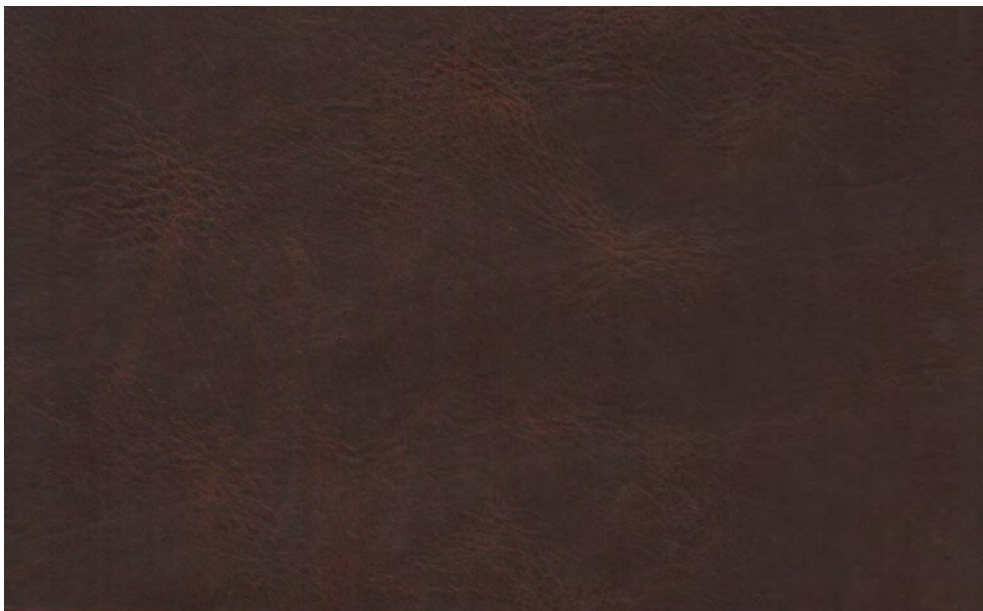
SATRA: 85%



Maiden WP EN

15

Maiden's white, hazy wax creates a natural softness that, combined with burnishing, has a rich look with an abundance of character.



Sorrel

Weight Range: 1.2-2.0mm

Oil Content: Max 18%

NWP Version: Maiden*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



EN Safety
Must be $\geq 1.8\text{mm}$



16

Maldova WP 83 EN



A must have waterproof burnishable waxed leather with light milling and a soft touch. Maldova WP is a great article for all casual footwear.

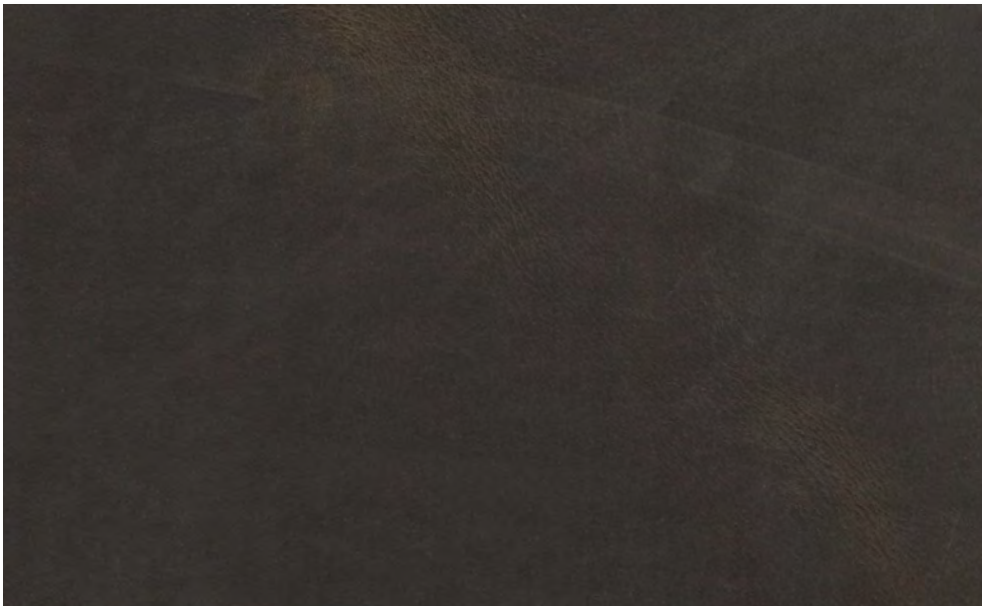


SPR / Barnyard



EN Safety

Must be $\geq 1.8\text{mm}$



Weight Range: 1.0-1.8mm

Oil Content: Max 16%

NWP Version: Maldova 83*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%

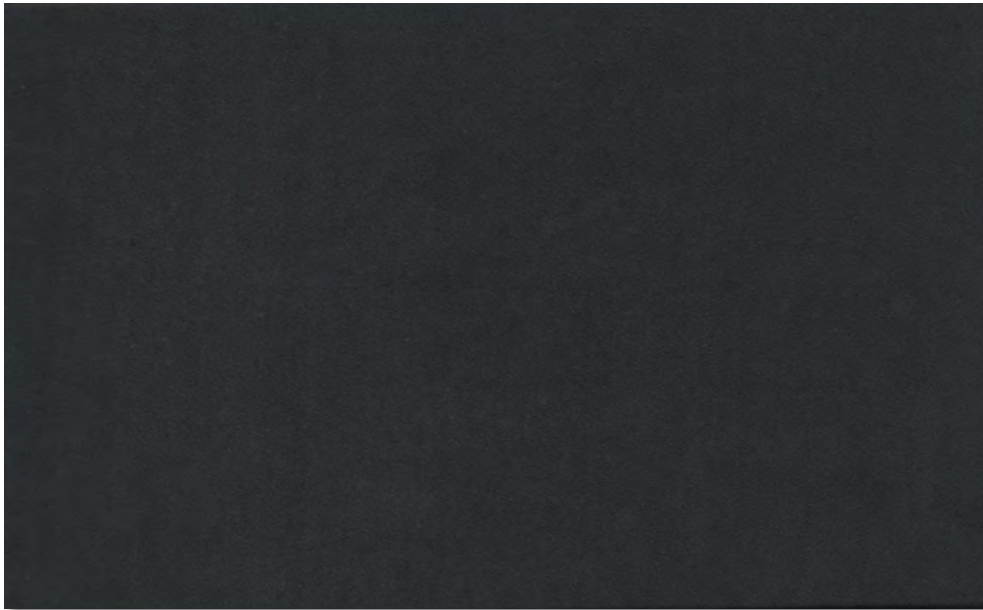
Fossil



Manitou WP EN SS

17

Manitou WP EN SS is a naturally smooth leather with a silky feel and a fine burnishable grain. It has a beautiful aniline finish and a mellow temper.



Black

Weight Range: 1.0-1.8mm

Oil Content: Max 12%

NWP Version: Manitou*

**NWP version will not pass SPR / SS*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



Saline Solution



EN Safety
Must be $\geq 1.8\text{mm}$

18

Muddy River WP EN



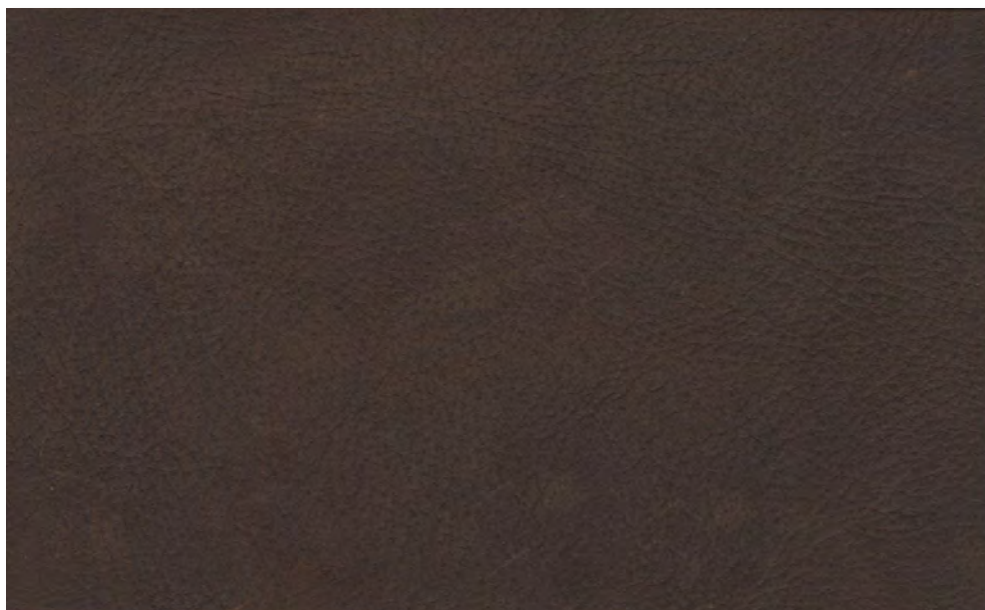
A core leather throughout the entire footwear industry. Whenever a rugged casual WP leather is needed, look to Muddy River WP.



SPR / Barnyard



EN Safety
Must be $\geq 1.8\text{mm}$



Dark Earth

Weight Range: 1.2-2.2mm

Oil Content: Max 18%

NWP Version: Traction*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA:

80% for Dark colors /

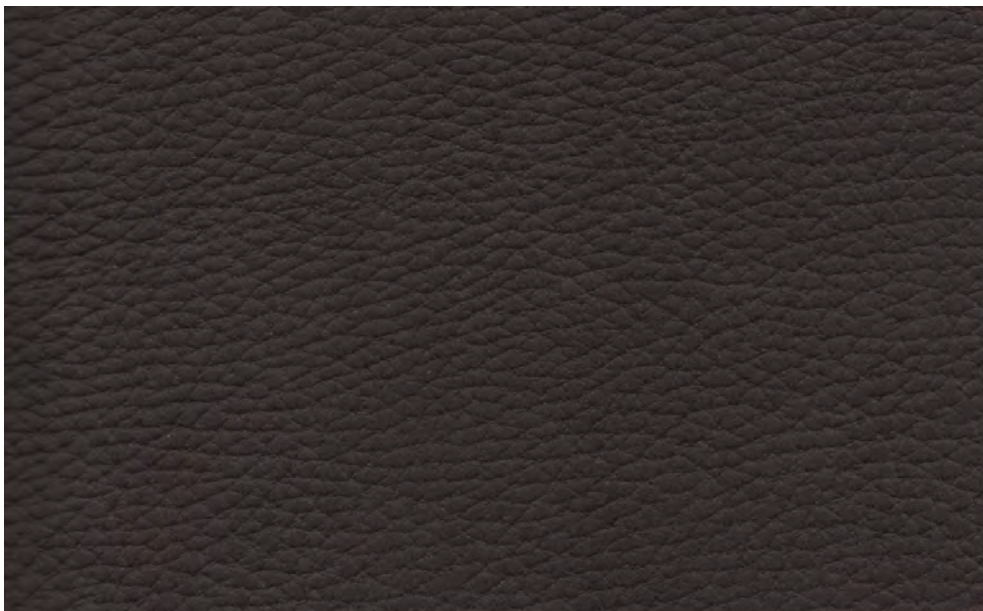
85% for Medium colors



Outback WP

19

Outback is a rugged, work leather that stands up to the toughest challenges. Milled with a subtle pull-up effect, this leather offers both durability and comfort. Its waterproof properties make it ideal for any outdoor or demanding environment, while the milling process enhances the pebble variation, giving it a relaxed look.



Cafe

Weight Range: 1.2-2.2mm

Oil Content: Max 20%

NWP Version: Outback*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard

20

Overlord WP EN



Overlord WP has a great small texture and antique surface interest all the while remaining very soft in temper. A classic outdoor look for winter.

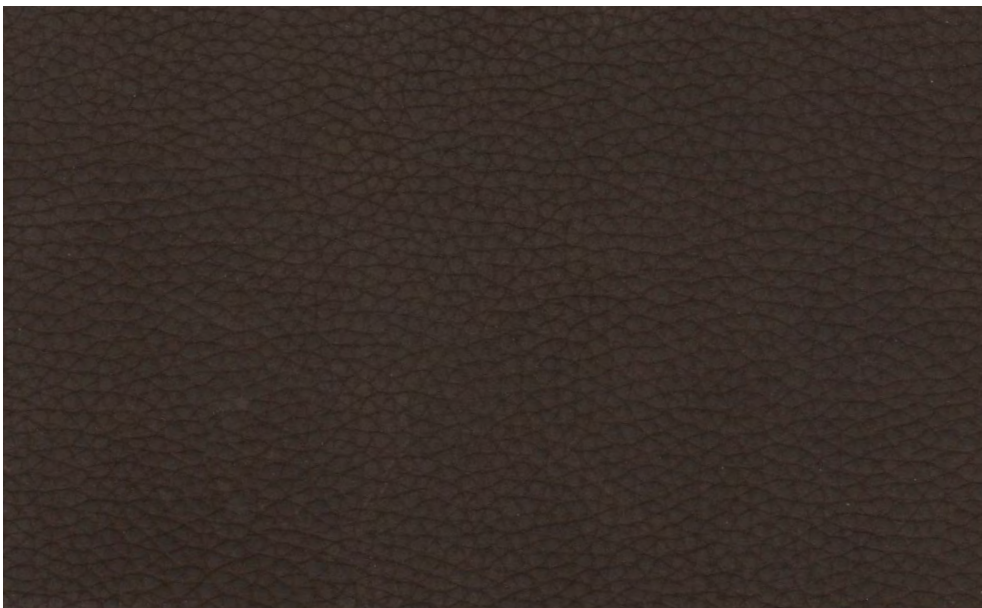


SPR / Barnyard



EN Safety

Must be $\geq 1.8\text{mm}$



Guinness

Weight Range: 1.2-2.0mm

Oil Content: Max 16%

NWP Version: Overlord*

**NWP version will not pass SPR*

Color Range: Dark colors only

SATRA: 80%

For medium colors, order Overlord 85 WP EN with 85% SATRA.



Regiment WP EN

Tough as nails, Regiment WP is the best performance leather in our arsenal.

21



Black

Weight Range: 1.2-2.2mm

Oil Content: Max 16%

NWP Version: Regiment*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



EN Safety
Must be $\geq 1.8\text{mm}$

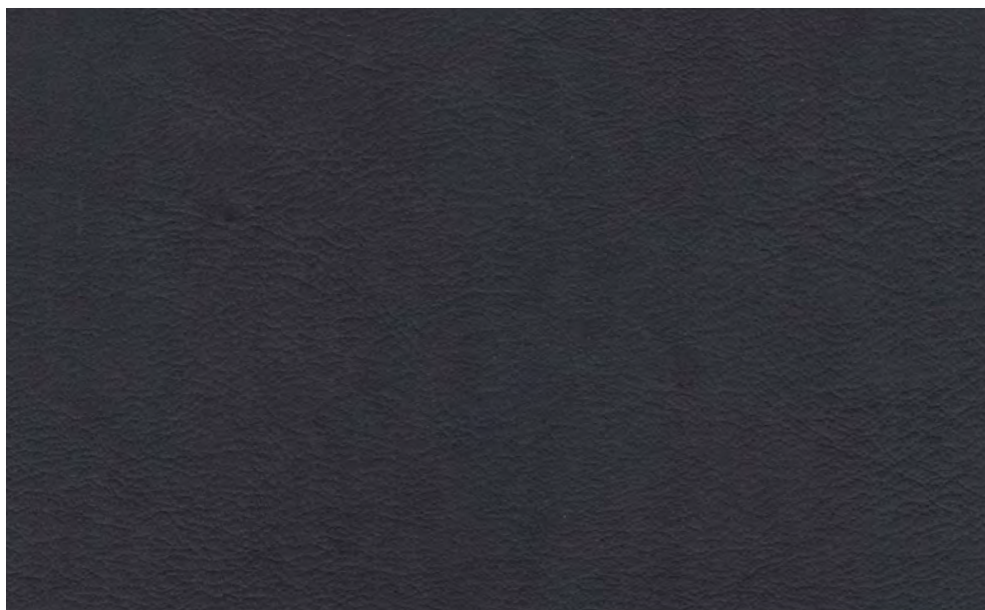
22

Rejuvenate Washable

With its natural grain character and softly milled temper, Rejuvenate Washable offers a full grain washable option.



Washable



Peacoat

Weight Range: 1.2-1.6mm

Oil Content: Max 12%

WP Version: Not Available

Color Range: Light to Dark

SATRA: 85%



Riptide Galloper WP EN SS

Perfect for performance boots, Riptide Galloper WP SS offers a smooth full grain surface with an oily touch.

23



Black

Weight Range: 1.2-2.0mm

Oil Content: Max 16%

NWP Version: Galloper*

**NWP version will not pass SPR / SS*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



Saline Solution



EN Safety
Must be $\geq 1.8\text{mm}$

24

Roadrunner WP



Extreme performance reaching 25,000 maeser flexes on top of improved abrasion resistance. Roadrunner WP is the protection you are looking for from work to golf applications.



SPR / Barnyard



25,000 flexes &
Abrasion



White

Weight Range: 1.2-2.0mm

Oil Content: Max 10%

NWP Version: Always WP

Color Range: Light to Dark

SATRA: 85%



Roadrunner WP Smooth

25

Extreme performance reaching 25,000 maeser flexes on top of improved abrasion resistance. Roadrunner WP Smooth is the protection you are looking for from work to golf applications.



Demitasse

Weight Range: 1.2-2.0mm

Oil Content: Max 10%

NWP Version: Always WP

Color Range: Light to Dark

SATRA: 85%



SPR / Barnyard



25,000 flexes &
Abrasion

26

Saddleback WP EN



Saddleback is an ISA flagship article. It is a classic crazyhorse leather with a traditional pull up and soft waxed surface.

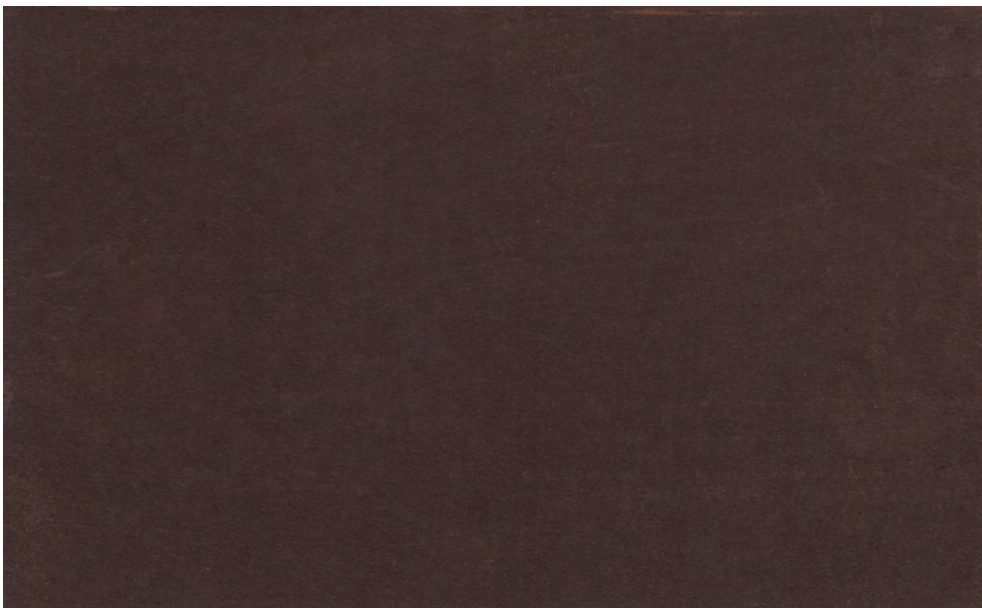


SPR / Barnyard



EN Safety

Must be $\geq 1.8\text{mm}$



Weight Range: 1.2-2.2mm

Oil Content: Max 18%

NWP Version: Saddleback*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%

Clove



Sanehorse LO WP EN

27

A traditional leather with a smooth, oiled pull up, however, the oil content is low enough for direct attach constructions.



Sturdy Brown

Weight Range: 1.2-2.0mm

Oil Content: Max 14%

NWP Version: Sanehorse*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



EN Safety
Must be $\geq 1.8\text{mm}$

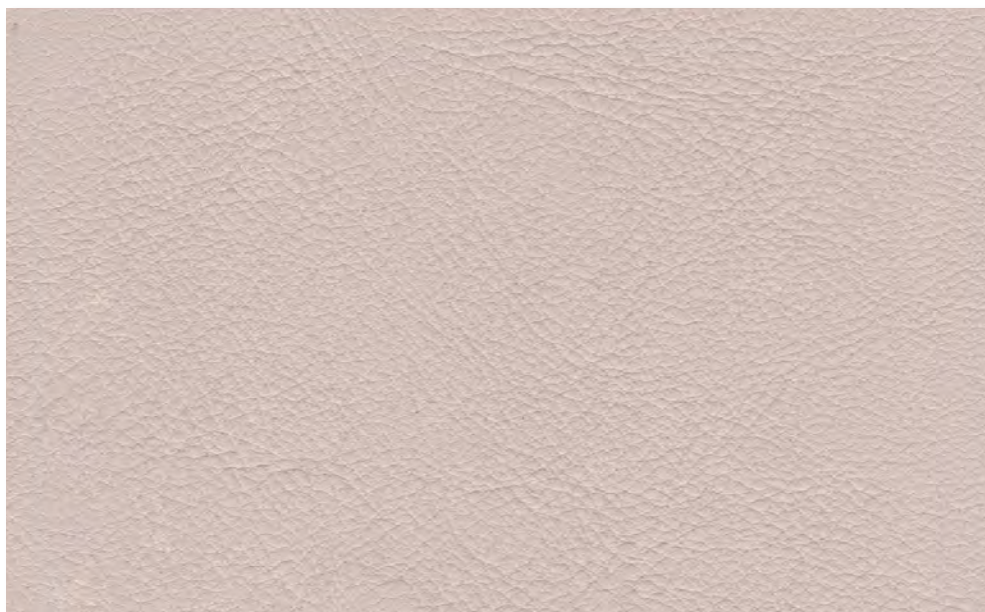
28

Shazam Washable

Shazam is a washable version of our famous leather Shaun. An athletic inspired nappa with a soft hand and a talcy surface feel. All colors are available.



Washable



Pastel Parchment

Weight Range: 1.0-1.4mm

Oil Content: Max 12%

WP Version: Not Available

Color Range: Light to Dark

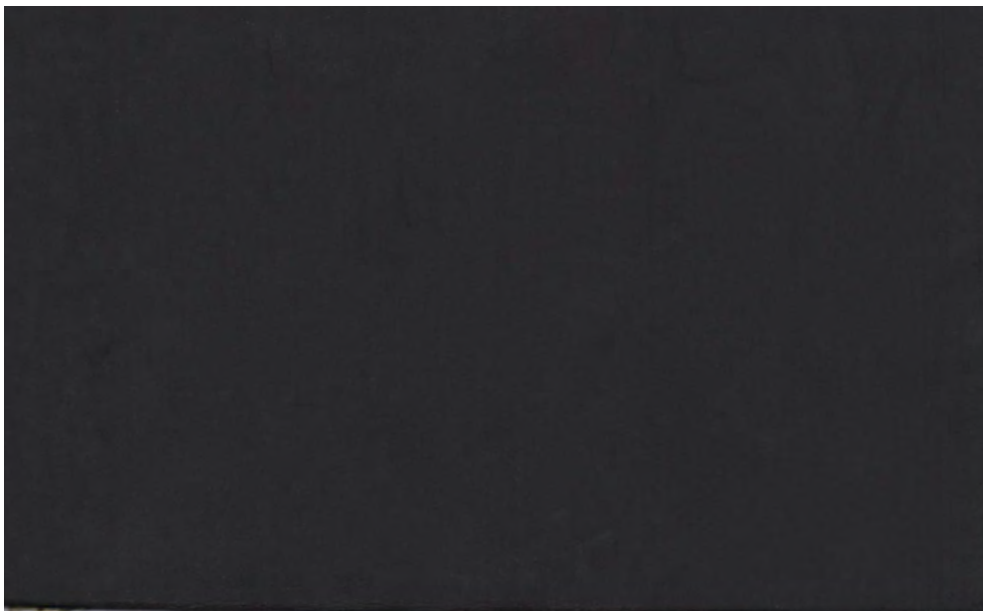
SATRA: 85%



Snowplow WP SS

A rugged leather with an aggressive pull up and a unique smooth, slick surface.

29



Black Lager

Weight Range: 1.2-2.2mm

Oil Content: Max 18%

NWP Version: Snowplow*

**NWP version will not pass SPR / SS*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



Saline Solution

30

Tailgate WP EN



A classic look that is both rugged and soft, Tailgate WP EN is a great option with natural milling and a lightly oiled character.

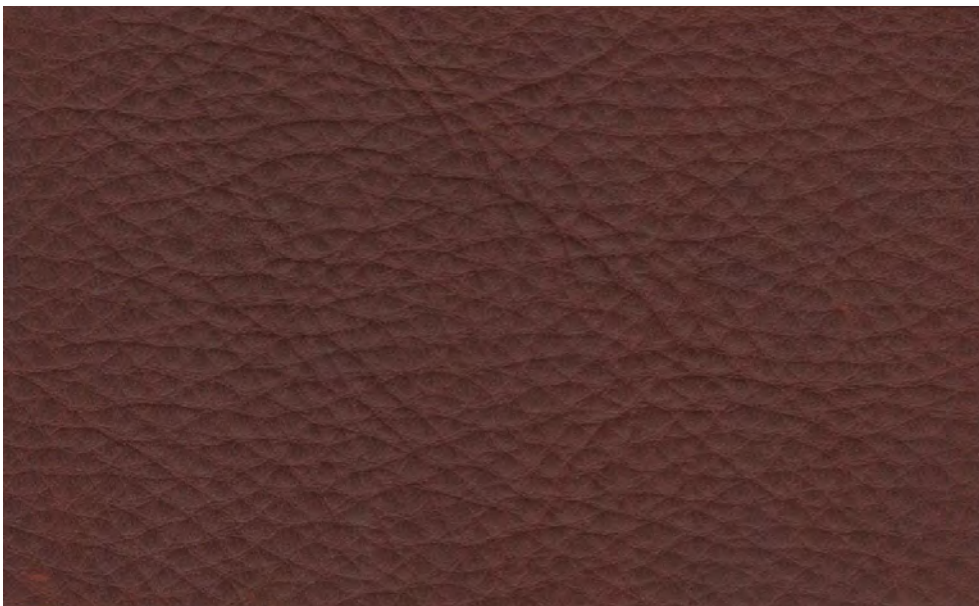


SPR / Barnyard



EN Safety

Must be $\geq 1.8\text{mm}$



Leather Brown

Weight Range: 1.2-2.0mm

Oil Content: Max 20%

NWP Version: Tailgate*

**NWP version will not pass SPR*

Color Range: Med to Dark

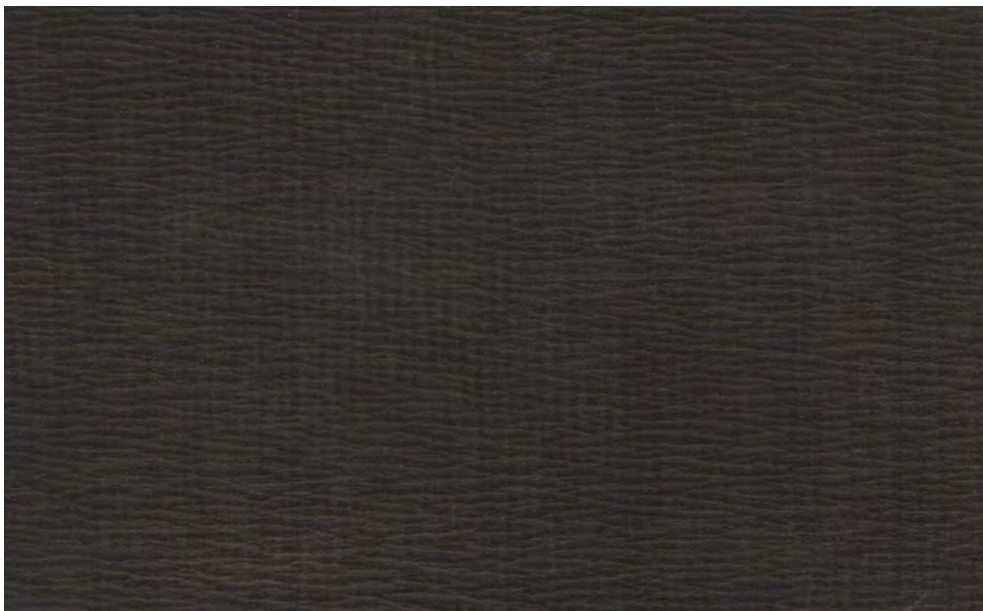
SATRA: 85%



Tomahawk WP EN

31

Cracked and eroded, Tomahawk WP brings a level of distressed texture to a new WP leather from ISA.



Charcoal Gray

Weight Range: 1.4-2.0mm

Oil Content: Max 22%

NWP Version: Could be developed*

**NWP version will not pass SPR*

Color Range: Dark colors only

SATRA: 80%

For medium colors, order Tomahawk 85 WP EN with 85% SATRA.



SPR / Barnyard



EN Safety
Must be $\geq 1.8\text{mm}$

32

Tumbled Moonbeam WP



Milled floater type athletic article great for golf shoes with high maeser flex and abrasion performance.



SPR / Barnyard



25,000 flexes &
Abrasion



Ice White

Weight Range: 1.4-1.8mm

Oil Content: Max 12%

NWP Version: Always WP

Color Range: Light to Dark

SATRA: 85%



Voltan WP SS

33

The perfect article for performance boots, Voltan WP offers a smooth full grain surface with an oily touch and soft temper.



Demitasse

Weight Range: 1.2-1.8mm

Oil Content: Max 16%

NWP Version: Voltan*

**NWP version will not pass SPR / SS*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



Saline Solution



34

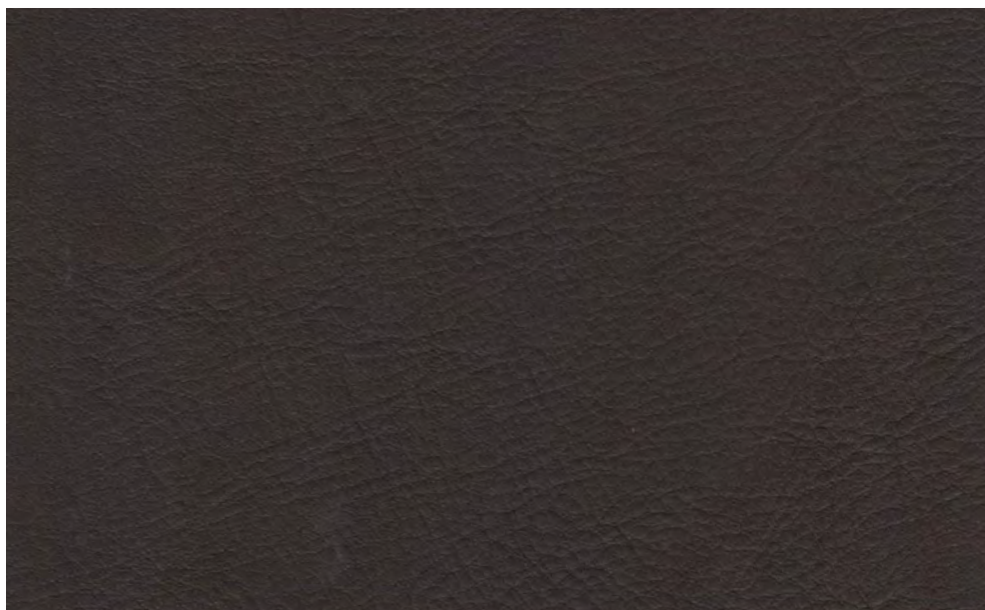
Whirlpool WP SS



An extraordinarily soft, yet very smooth waterproof & breathable tannage with a matte finish.



Saline Solution



Weight Range: 1.2-1.6mm

Oil Content: Max 14%

NWP Version: Whirlpool*

**NWP version will not pass SS*

Color Range: Light to Dark

SATRA: 85%

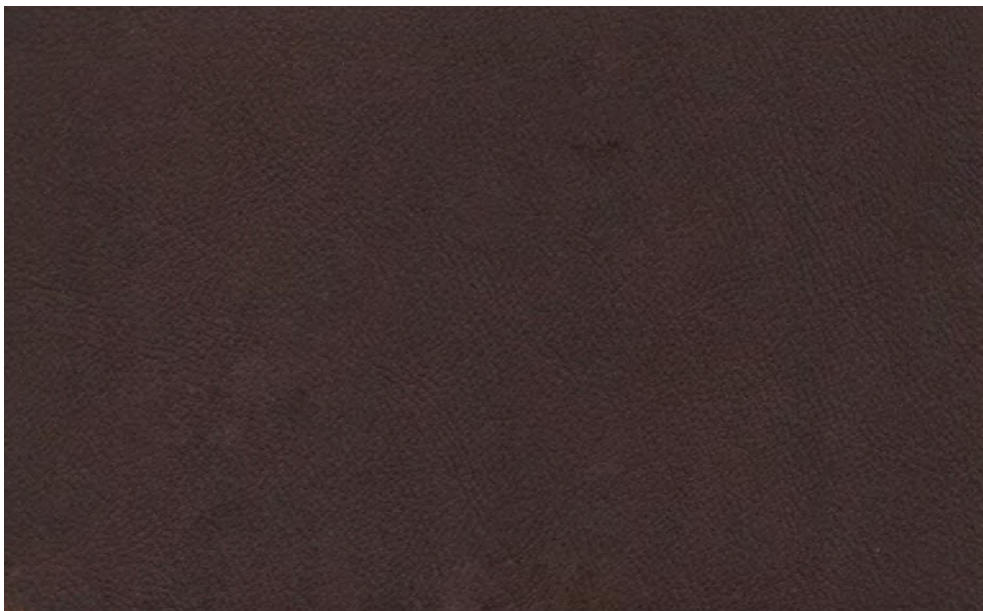
DK Cola



Workhorse WP EN

35

Classic American lifestyle leather with high oil content, premium quality tanning method available naturally milled or embossed.



Real Brown

Weight Range: 1.4-2.2mm

Oil Content: Max 22%

NWP Version: Workhorse*

**NWP version will not pass SPR*

Color Range: Med to Dark

SATRA: 85%



SPR / Barnyard



EN Safety
Must be $\geq 1.8\text{mm}$

ISA LITE INDEX

ARTICLE



Liters of
Water
Saved



MJ of
Energy
Saved

1 AR Crisscross WP EN	8.74	2.66
2 Barrier WP SS	8.74	2.74
3 Bicentennial EN	9.95	2.19
4 Breathe Easy WP EN SS	8.76	2.73
5 Chill WP EN	8.54	2.97
6 Connection WP EN	8.54	2.47
7 Cool WP EN	8.76	3.22
8 Discovery WP SS Washable	8.74	2.59
9 Fischer WP	8.83	2.22
10 Green Bay WP #93	8.76	2.89
11 Horley EN	9.95	2.67
12 Iceberg WP SS	8.74	2.59
13 Krakatoa WP EN	9.24	2.29
14 Lore WP SS	8.74	3.11
15 Maiden WP EN	8.54	2.49
16 Maldova WP 83 EN	8.54	2.66
17 Manitou WP EN SS	8.74	2.84
18 Muddy River WP EN	8.62	2.18

ARTICLE



Liters of
Water
Saved



MJ of
Energy
Saved

19 Outback WP	8.83	2.48
20 Overlord WP EN	8.62	2.10
21 Regiment WP EN	8.54	3.09
22 Rejuvenate Washable	8.44	2.96
23 Riptide Galloper WP EN SS	8.74	2.98
24 Roadrunner WP	8.72	2.44
25 Roadrunner WP Smooth	8.76	2.76
26 Saddleback WP EN	8.54	2.73
27 Sanehorse LO WP EN	8.74	2.75
28 Shazam Washable	8.44	2.83
29 Snowplow WP SS	8.76	2.20
30 Tailgate WP EN	8.05	2.40
31 Tomahawk WP EN	9.24	2.30
32 Tumbled Moonbeam WP	9.44	2.70
33 Voltan WP SS	8.76	2.87
34 Whirlpool WP SS	8.74	2.67
35 Workhorse WP EN	8.83	2.81

The numbers are showing the energy and water an article will save per square foot, comparing to the Bronze Rate (65%) in the latest LWG Protocol of 50.4 MJ/m² (4.68 MJ/sqf) for energy consumption and 134.1 L/m² (12.46 L/sqf) for water consumption. The thickness of the articles being covered in the calculator is ranged from 1.6mm-2.0mm.



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