



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 Must be ≥1.8mm	 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

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

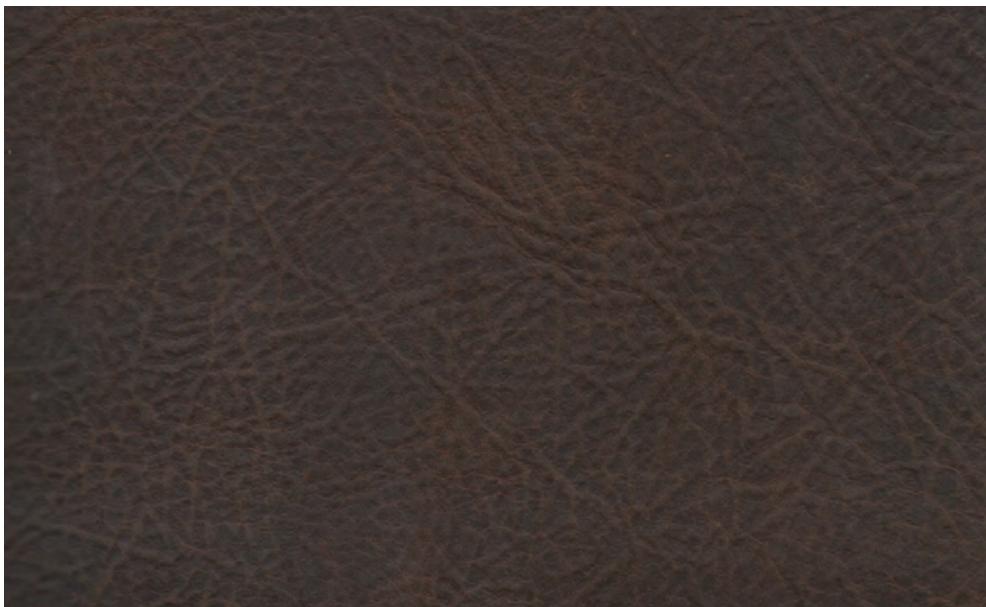
01



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



Timeless Taupe

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%

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 $\geq 1.8mm$

04

Breathe Easy WP EN SS



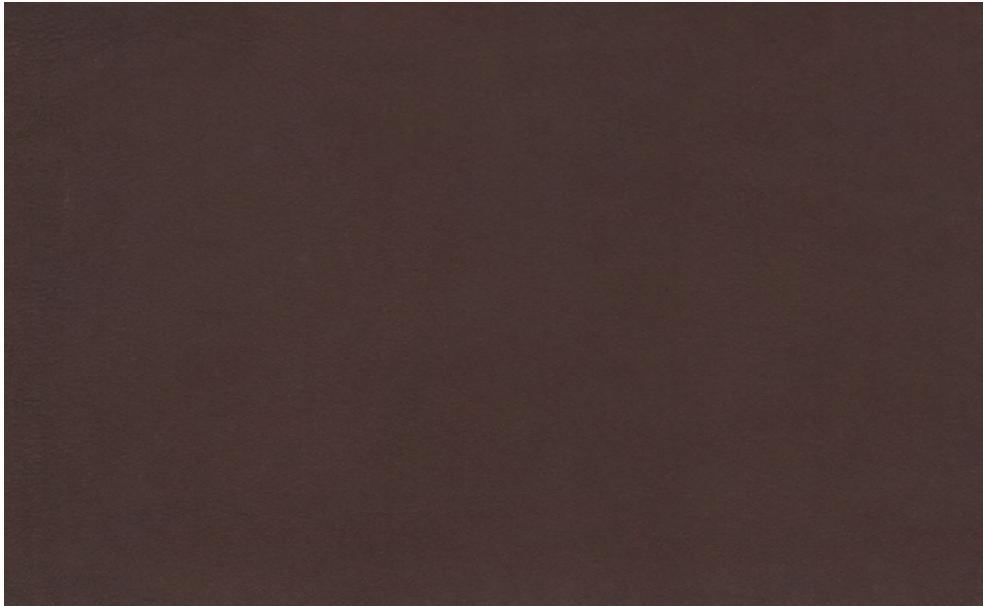
A smooth, clean surface in a high performance leather. Breathe Easy WP is a waterproof, breathable leather that dries quickly and also passes our Saline Solution spec. Truly, a high performance leather.



Saline Solution



EN Safety
Must be $\geq 1.8mm$



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 $\geq 1.8mm$



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 $\geq 1.8\text{mm}$



Mink Oil

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.



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 $\geq 1.8mm$



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



Fog

Weight Range: 1.2-2.0mm

Oil Content: Max 10%

NWP Version: Not Available

Color Range: Light to Dark

SATRA: 85%



Fischer WP

A tough looking performance leather suitable for all workboot applications.

09



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%

Black



SPR / Barnyard

10

Green Bay WP #93

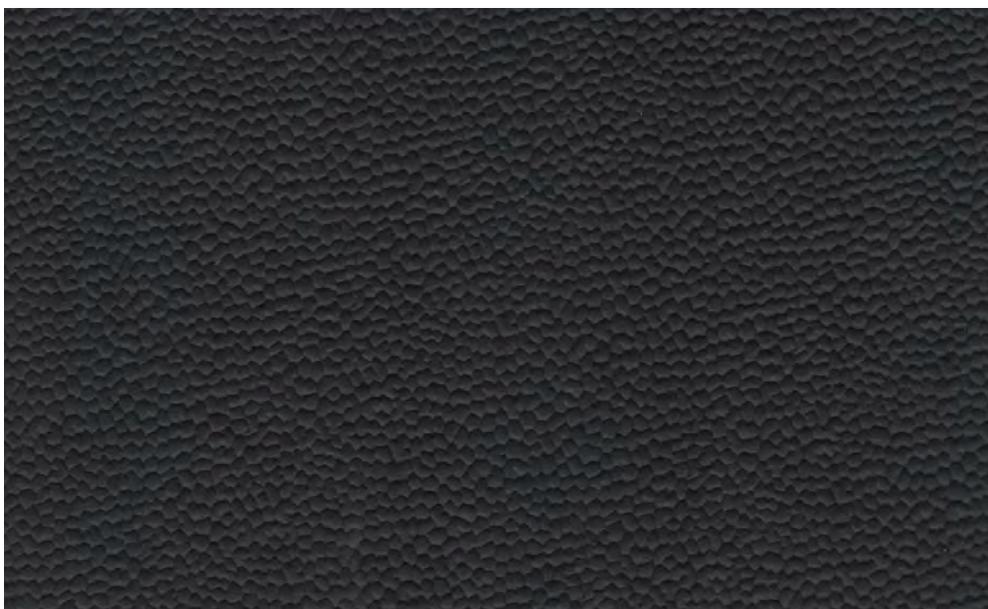
Extreme performance reaching 25,000 maeser flexes and enhanced durability.



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.



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.

Dark Brown



EN Safety
Must be $\geq 1.8mm$

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



Dove

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%



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 ≥1.8mm

14

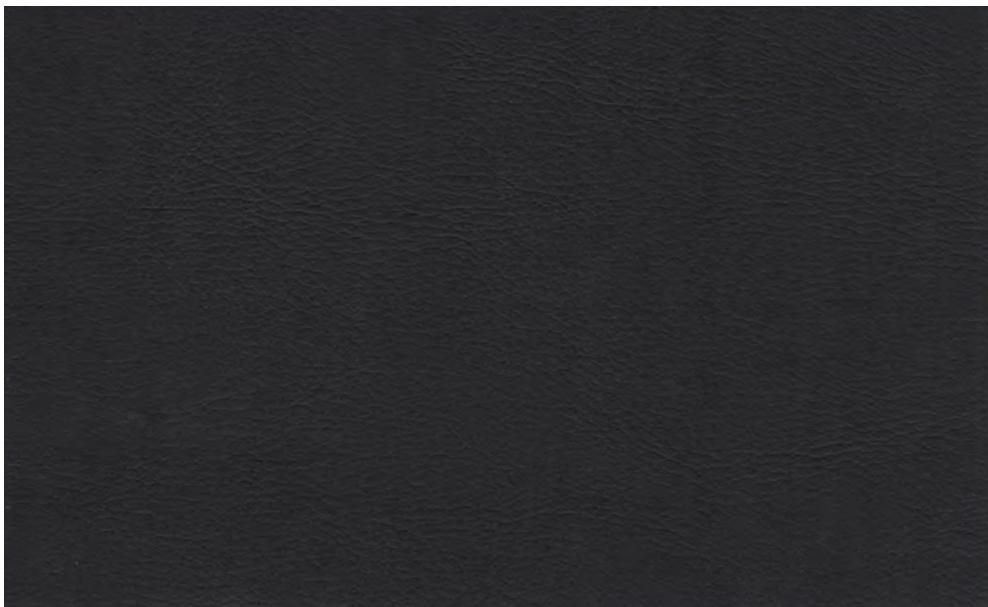
Lore WP SS



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 ≥1.8mm

16

Maldova WP 83 EN



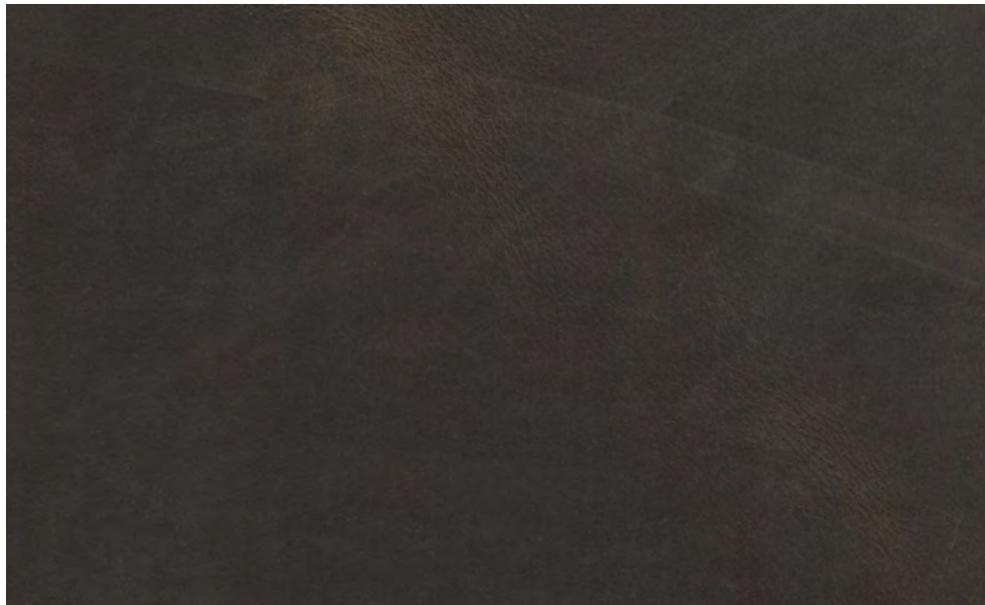
A must have waterproof burnishable waxed leather with light milling and a soft touch. Maldova WP is a great article for all casual footwear.



SPR / Barnyard



EN Safety
Must be $\geq 1.8mm$



Fossil

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

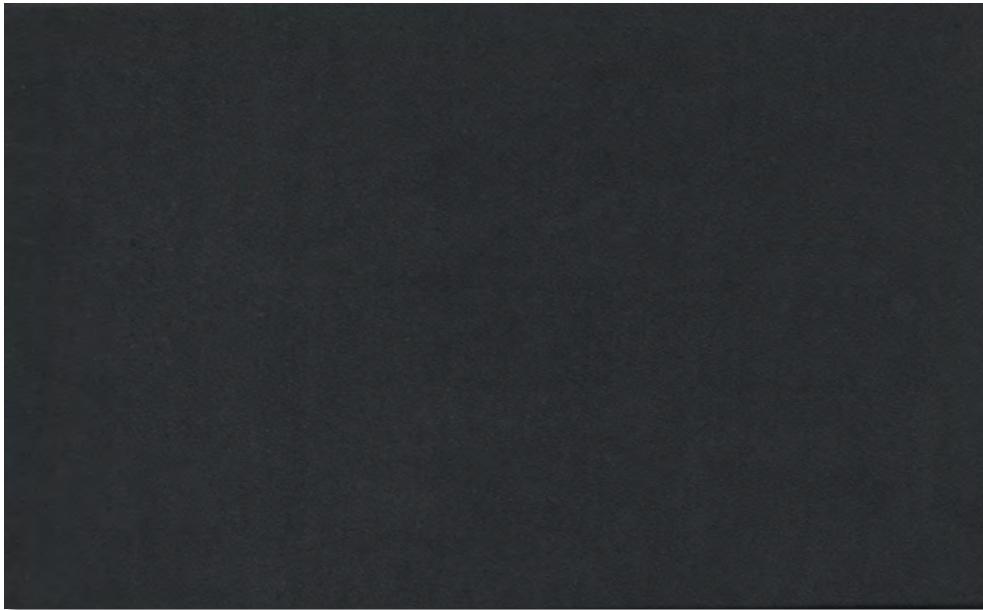
SATRA: 85%



Manitou WP EN SS

17

Maintou 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 ≥1.8mm

18

Muddy River WP EN



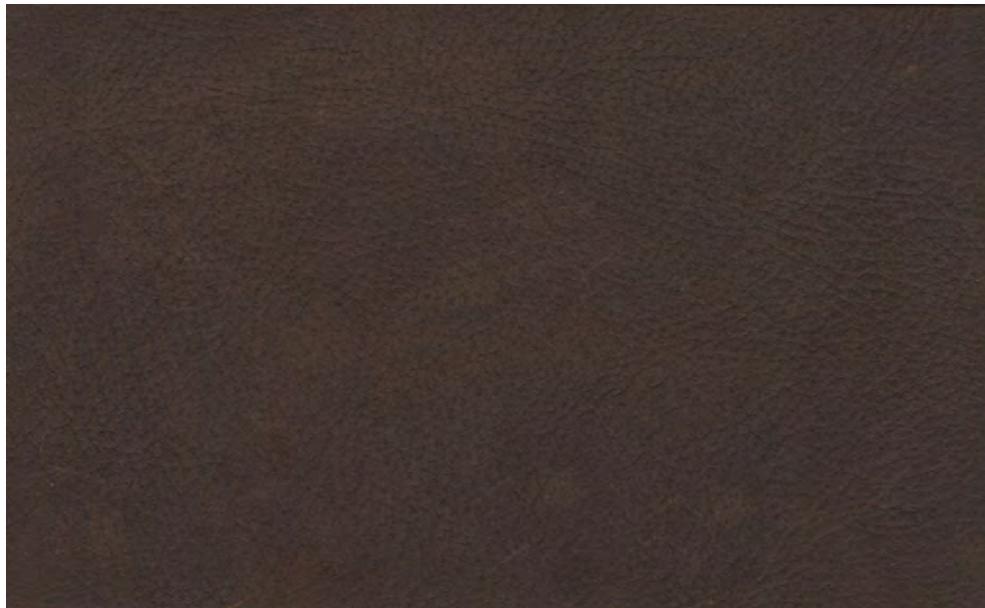
A core leather throughout the entire footwear industry. Whenever a rugged casual WP leather is needed, look to Muddy River WP.



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 /

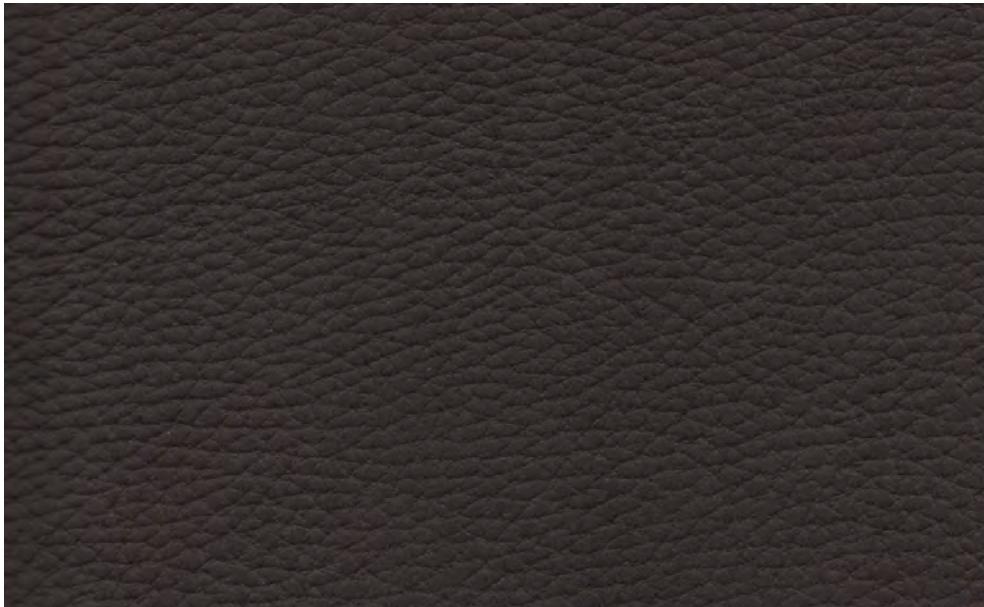
85% for Medium colors



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



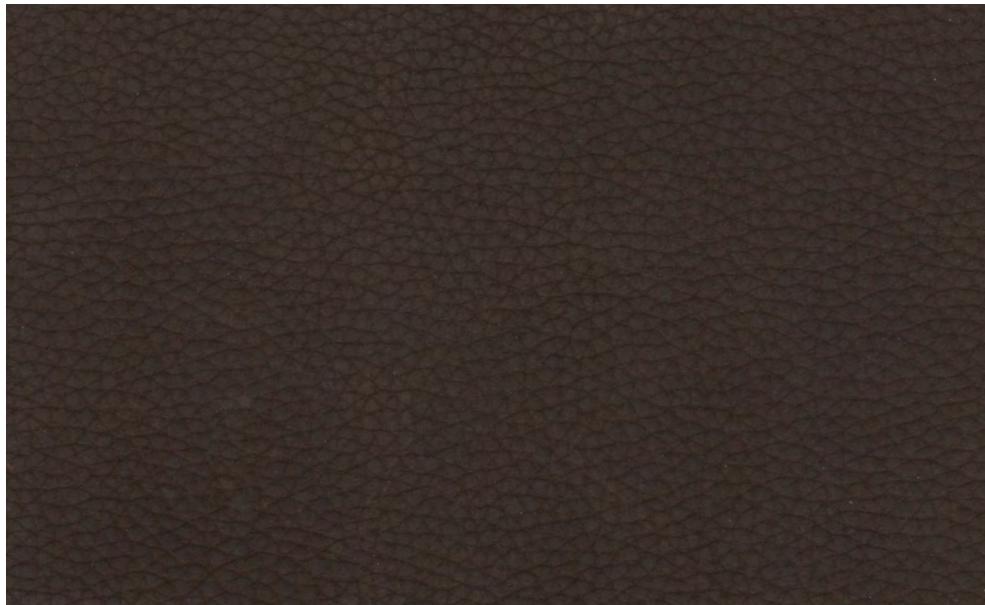
Overlord WP has a great small texture and antique surface interest all the while remaining very soft in temper. A classic outdoor look for winter.



SPR / Barnyard



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



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.

Guinness



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 ≥1.8mm

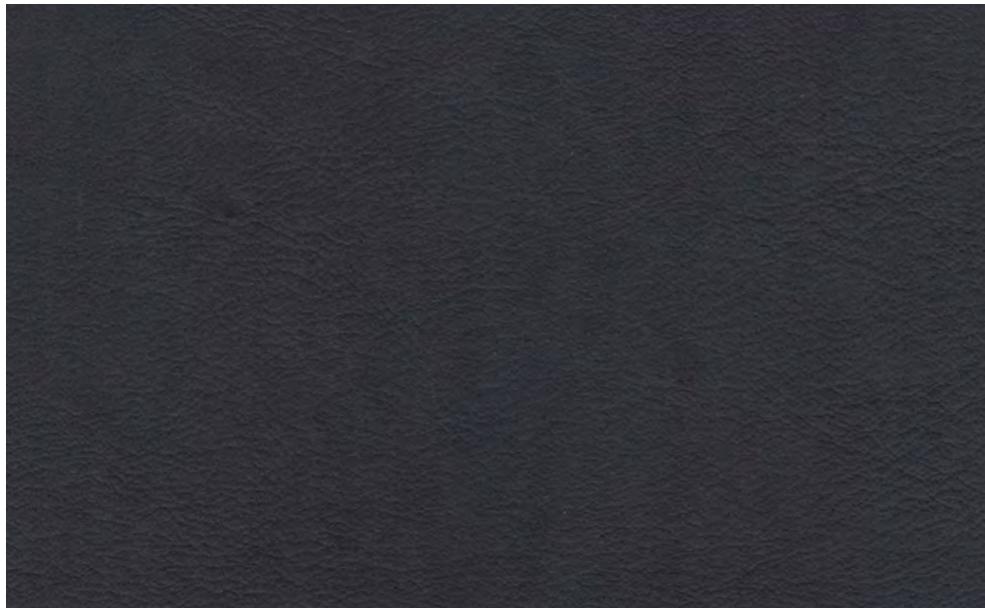
22

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 ≥1.8mm

24

Roadrunner WP



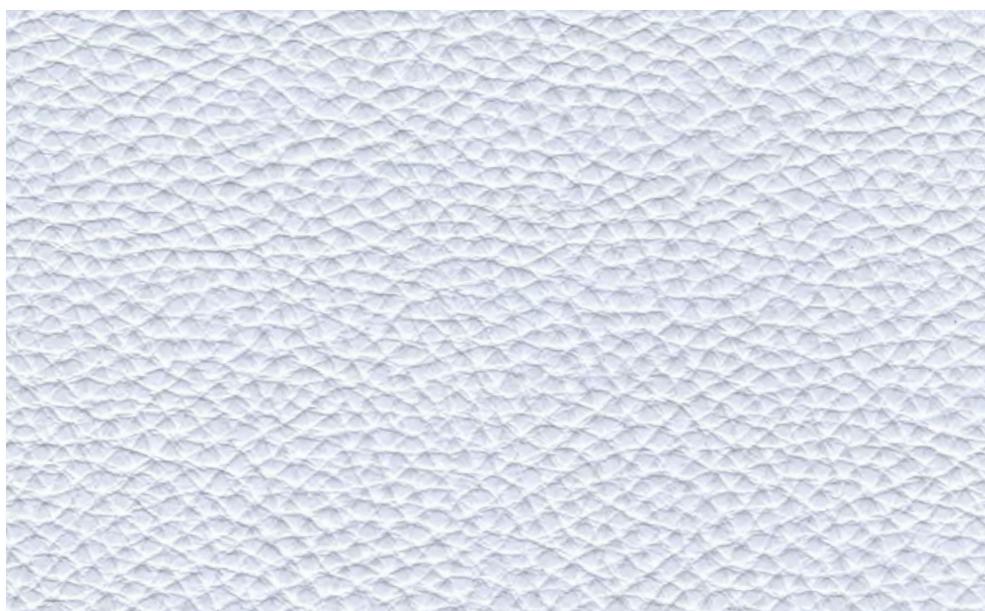
Extreme performance reaching 25,000 maeser flexes on top of improved abrasion resistance. Roadrunner WP is the protection you are looking for from work to golf applications.



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

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.

25



Weight Range: 1.2-2.0mm

Oil Content: Max 10%

NWP Version: Always WP

Color Range: Light to Dark

SATRA: 85%

Demitasse



SPR / Barnyard



25,000 flexes &
Abrasion

26

Saddleback WP EN



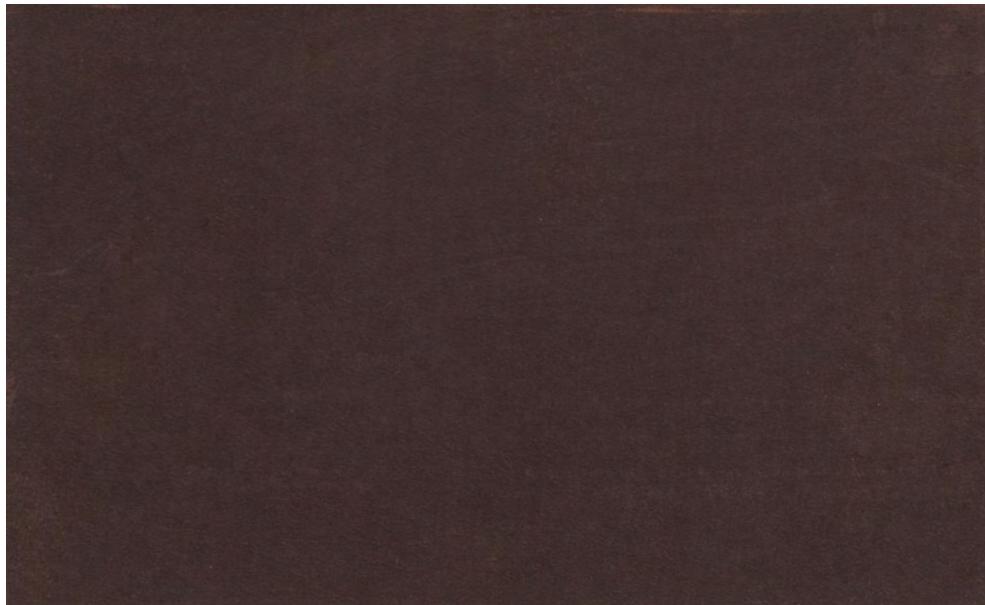
Saddleback is an ISA flagship article. It is a classic crazyhorse leather with a traditional pull up and soft waxed surface.



SPR / Barnyard



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



Clove

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%



Sanehorse LO WP EN

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

27



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%

Sturdy Brown



SPR / Barnyard



EN Safety

Must be $\geq 1.8mm$

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



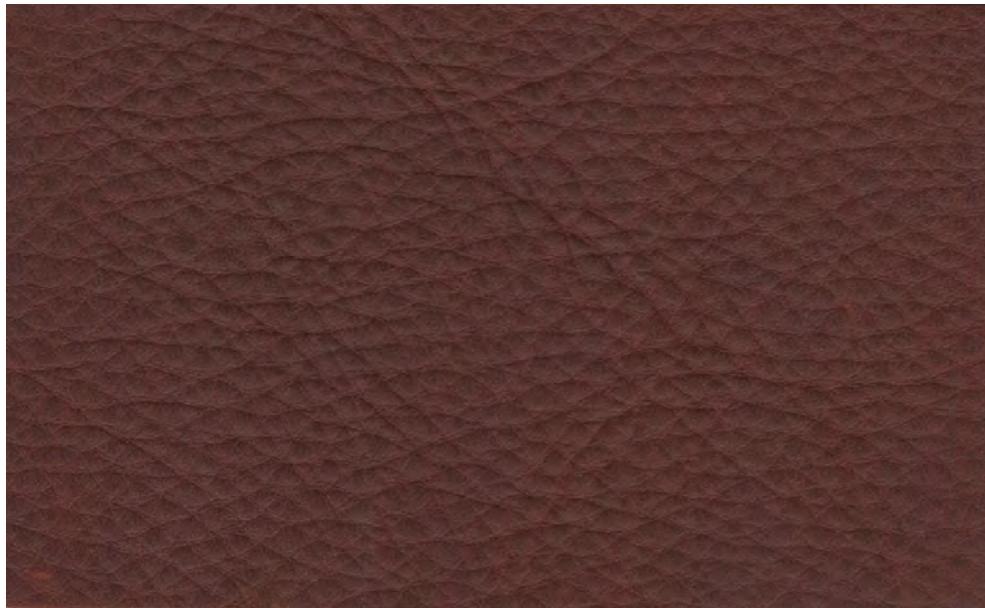
A classic look that is both rugged and soft, Tailgate WP EN is a great option with natural milling and a lightly oiled character.



SPR / Barnyard



EN Safety
Must be $\geq 1.8mm$



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

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

31



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 ≥1.8mm

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

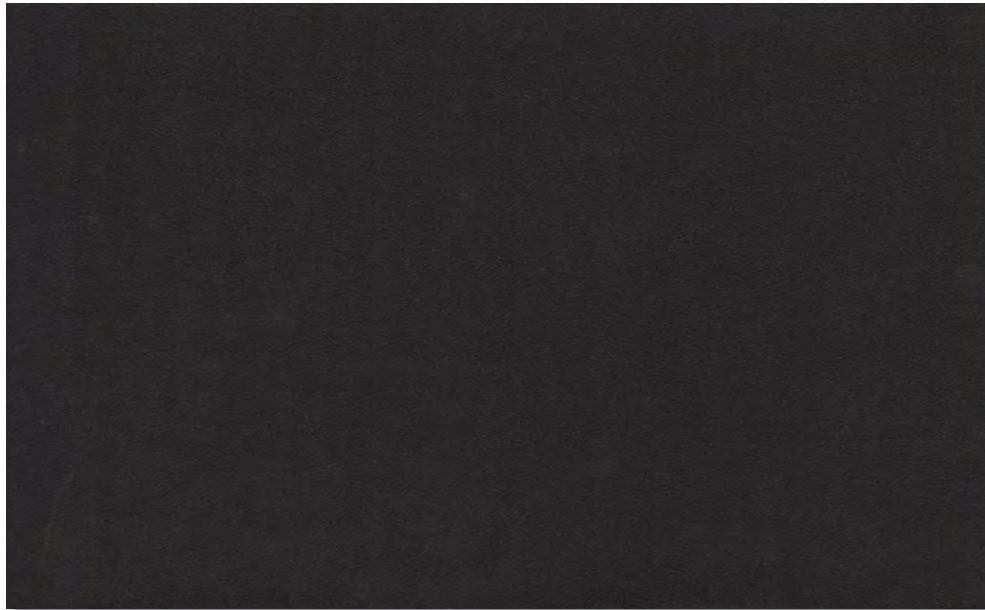
SATRA: 85%



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

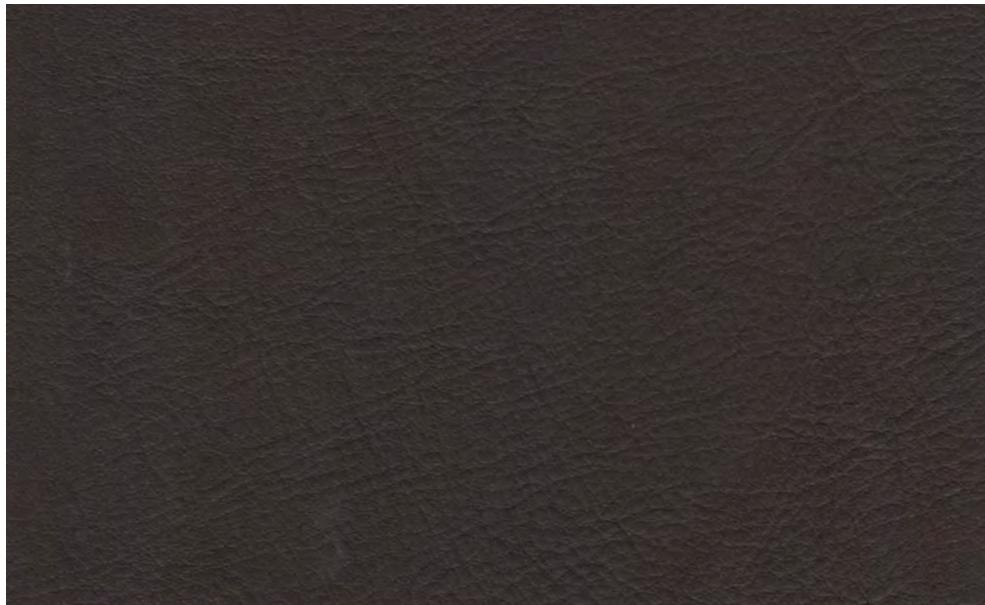
Whirlpool WP SS



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



Saline Solution



DK Cola

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%



Workhorse WP EN

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

35



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 $\geq 1.8mm$

ISA LITE INDEX

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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



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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/m^2 (4.68 MJ/sqf) for energy consumption and 134.1 L/m^2 (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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