

ISA WATERPROOF PERFORMANCE COLLECTION

All ISA Leathers Are PFC Free. Always.









PFC FREE

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FEATURES	Waterproof	Saline Solution	GoreTex Approved	Washable
TEST METHOD	Maesers TM34 & Wicking TM305	ISA INTERNAL	ISO14268 Option C	ISO 105 C06 A15
HOW TO SPECIFY	WP	SS	GT	Washable
TEST METHOD DESCRIPTION	Absorption 20% after 15,000 Maeser Flexes. Wicking 10mm after 1 hour.	Samples of leather are tested against water resistance, using the maeser flex test, with a 3% salt solution for 15,000 cycles. Water absorption rate is assessed. Cleanability by rub fastness test after samples are dry is assessed.	A leather sample is used to seal a bottle which is filled with dried silica gel. Air is blown onto the leather for a set amount of time. The weight gained the whole bottle is assessed to evaluate the permeability of the sample.	Samples of leather are washed following the standard conditions (A1S), color change and shrinkage is assessed after drying.
	Waterproofness	Cleanability / Easy to Remove	Water Vapor Permeability / Wicking	Color Transfer and Shrinkage
1 Barrier WP SS	•	•		
2 Blizzard WP SS	•	•		
3 Breathe Easy WP GT SS	•	•	•	
4 Iceberg WP SS	•	•		
5 Lore WP GT SS	•	•	•	
6 Manitou WP GT SS	•	•	•	
7 Riptide Galloper WP SS	•	•		
8 Snowbird WP SS	•	•		
9 Snowplow WP SS	•	•		
10 Voltan WP SS	•	•		
11 Whirlpool WP GT SS	•	•	diame.	
12 Ambush WP GT	•		•	
13 Blockbuster WP GT	•		•	
14 Cashmere WP GT	• 1		•	
15 Commando WP GT	•		•	
16 Cool WP GT	•		•	
17 Damre WP GT	•		•	
18 Farmington WP GT	•		•	
19 Grand Slam GT			•	
20 Highland WP GT	•		•	
21 Slippery WP GT	•		•	
22 Discovery WP SS Washable	△ M •	•		•
23 Rejuvenate Washable				•
24 Shazam Washable				•
25 Abruzzo WP	•			-/4
26 AR Rogue WP	•			
27 Back Track WP	•			
28 Beeswax WP	•			
29 Brilliant WP	•			2/1/27//
30 Cajun WP	•			
31 Connection WP	•		1-14	16-11-11
32 Chase WP	•		7 1976	
33 Crisscross WP	•			NAME OF THE PARTY
	•			The state of

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24 Doutone WD	waterproomess	Cleanability / Lasy to Nemove	water vapor remieability / wicking	Color Hansier and Similikage
34 Daytona WP	•			
35 Elegance WP	•			
36 Euroveg WP	•			
37 Fusion WP	•			
38 Jagged WP	•			
39 Journeyman WP	•			
40 Kilimanjaro WP	•			
41 Krakatoa WP	•			
42 Maiden WP	•			
43 Maldova WP 83	•			
44 Muddy River WP 83				
45 Orleans WP	•	Paragraphy and		
46 Overdrive WP	•			
47 Overlord WP	•			
48 Plunge WP	•			
49 Porcelain WP	•	MAN 4 4 6		
50 Rapid WP	•			
51 Revenge Soft WP	•			
52 River Run WP	•		The state of the s	
53 Roadrunner WP Dull #7	•			
54 Rowan WP	•			
55 Saddleback WP	•			
56 Sanehorse WP LO	•			
57 Santro WP	• ///			
58 Shaun WP				
59 Super Lite WP	•			
60 Tailgate WP	•			
61 Titan WP	50/•	(A-A-		
62 Tomahawk WP		ASS		
63 Trailblazer WP	•	7 3/2/		
64 Tunis WP LO	•			
65 Watertown WP	•	7 BA		
66 Workhorse WP	•			





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 lonic 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.

Saline Solution



In addition to having sustainability at the heart of our business, ISA is constantly innovating and developing leather footwear solutions through the access of exclusive resources including test methods, accreditation, consultancy, research facilities as well as technical training.

In 2016, ISA proudly introduced Saline Solution – a technological breakthrough in the industry. Since first launched, the collection has expanded to include a wide variety of leather types. The functional features of Saline Solution leathers make footwear products suitable for every day wear.

To push the product even further, ISA is in constant contact with leading brands, offering customized and tailor made materials to meet their specific needs.

Performance Features:

Waterproof

Repels salt

Easy to clean

No finish damage





Test	Testing Criteria
SATRA TM34: 1993 Resistance to water penetration - Maeser test	No penetration at 15,000 flexes; maximum uptake of 20% at 15,000 flexes
SATRA TM305: 1998 Wick test	2 hours, Max rise 10mm
SATRA TM167: 2017 Colour fastness to rubbing - Crockmeter test	Dry & Wet ≥ 2.0

^{*} All performed with 36% sea salt.



Weight Range: 1.2 - 1.8mm Oil Content: Max 12% NWP Version: Dev. Required Color Range: Light to Dark

SATRA: 85%



Barrier WP SS

Black

03



Weight Range: 1.2 - 2.0mm Oil Content: Max 14% **NWP Version:** Incanta Color Range: Med. to Dark









Breathe Easy WP GT SS

Aegean Blue

05



Weight Range: 1.2 - 1.8mm Oil Content: Max 12% NWP Version: Lore Color Range: Light to Dark

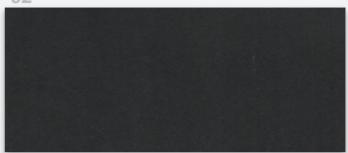
SATRA: 85%



Lore WP GT SS

Wineberry

02



Weight Range: 1.2 - 1.8mm Oil Content: Max 14% **NWP Version:** Blizzard Color Range: Med. to Dark

SATRA: 85%





Blizzard WP SS

Black

04



Weight Range: 1.2 - 2.2mm Oil Content: Max 14% **NWP Version:** Iceberg Color Range: Light to Dark

SATRA: 85%





Iceberg WP SS

Clove

06



Weight Range: 1.4 - 2.2mm Oil Content: Max 12% **NWP Version:** Manitou Color Range: Med. to Dark

SATRA: 85%







Manitou WP GT SS

Chocolate





Weight Range: 1.2 - 2.0mm Oil Content: Max 16% NWP Version: Galloper / Osaka Color Range: Med. to Dark

SATRA: 85%



Riptide Galloper WP SS

Black

09



Weight Range: 1.2 - 2.2mm Oil Content: Max 18% NWP Version: Snowplow Color Range: Med. to Dark

SATRA: 85%



Snowplow WP SS Chocolate Chip

11



Weight Range: 1.2 - 1.6mm Oil Content: Max 14% NWP Version: Whirlpool Color Range: Light to Dark





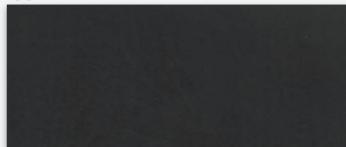


Whirlpool WP GT SS

Arabica

SATRA: 85%

08



Weight Range: 1.2 - 1.8mm Oil Content: Max 18% NWP Version: Not Available Color Range: Med. to Dark

SATRA: 85%





Snowbird WP SS

Monk's Robe

10



Weight Range: 1.2 - 1.8mm Oil Content: Max 16% NWP Version: Dev. Required Color Range: Med. to Dark

SATRA: 85%





Voltan WP SS

Fig

Gore Tex



GORE-TEX® FOOTWEAR LEATHER GUIDELINES & RECOMMENDATIONS

GORE-TEX® Footwear is globally known as setting the standard for guaranteed durably waterproof and breathable performance across a wide range of end uses, from casual shoes to mountaineering boots. By establishing performance specifications for finished footwear and confirming compliance to these specifications, Gore is able to assure a high level of quality and consistency in the performance of shoes which carry its GORE-TEX® brand. We provide our customers with specifications in a trademark license agreement and support their efforts to meet them, by providing guidelines and making specific recommendations on design, construction, and material/component performance to ensure the creation of footwear that can meet the specifications.

The following guidelines and recommendations are based on "whole shoe" lab tests, material swatch tests, and in-depth studies of consumer behaviors and expectations. These guidelines are not "requirements" for GORE-TEX® Footwear, but best practices. Their main purpose is to aide developers in building footwear that performs to consumer expectations and ensure the final footwear meets the Style Qualification needs as outlined by the Gore Footwear Lab.

Breathability. Leather breathability guidelines vary by GORE-TEX® Product category. Materials are tested in a Moisture Vapor Transmission Rate (MVTR) "bottle test" based on ISO 14268. Materials are not pre-stressed prior to testing and must be pre-conditioned for 8 hours in humidity-controlled setting. The guidelines below are provided to help developers build products that will ultimately perform in Gore's finished shoe "Footwear Breathability Test". Developers should take care when using overlays, adhesives or reinforcements, as these layers of components may also have an impact on the finished shoe test.

Performance & Insulated Comfort Footwear

Material (thickness up to 2.6mm)	MVTR
Full grain leather	5.0 mg/cm²h
Nubuck leather	5.0 mg/cm²h
Split leather	7.5 mg/cm²h
Lining leather	15.0 mg/cm²h

Extended Comfort Footwear

Material (thickness up to 2.6mm)	MVTR
Full grain leather	8.0 mg/cm ² h
Nubuck leather	8.0 mg/cm ² h
Split leather	10.0 mg/cm ² h
Lining leather	15.0 mg/cm ² h

Wicking. Gore recommends that leathers used in building GORE-TEX® Footwear do not wick more than 1 centimeter for every 2 hours in a wicking bath. This ensures moisture does not enter the GORE-TEX® bootie by traveling up and over the top of the upper material.

Maeser Flexes. Because the GORE-TEX® laminate is engineered to deliver waterproof functionality in the finished shoe, there are no Maeser Flex performance guidelines, recommendations, or requirements for leathers in GORE-TEX® footwear.

^{*}Maximum thickness on non nubuck articles is 1.6mm.



Weight Range: 1.2 - 1.6mm Oil Content: Max 16% NWP Version: Ambush Color Range: Light to Dark

SATRA: 85%



Ambush WP GT

Fossil Ivory

14



Weight Range: 1.2 - 1.8mm Oil Content: Max 14% NWP Version: Cashmere Color Range: Light to Dark

SATRA: 85%



Cashmere WP GT

Dress Blues

16



Weight Range: 1.2 - 1.6mm Oil Content: Max 12% NWP Version: Cool

Color Range: Black & Dark Brown only

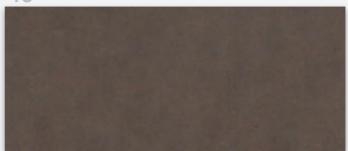
SATRA: 85%



Cool WP GT

Black

13



Weight Range: 1.4 - 2.2mm Oil Content: Max 12% NWP Version: Dev. Required Color Range: Med. to Dark

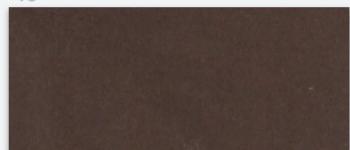
SATRA: 85%



Blockbuster WP GT

Fossil

15



Weight Range: 1.2 - 1.6mm Oil Content: Max 16% NWP Version: Commando Color Range: Light to Dark

SATRA: 85%





Commando WP GT

Cacao Wow

17



Weight Range: 1.2 - 1.6mm Oil Content: Max 12% WP Version: Damre Color Range: Light to Dark

SATRA: 85%



Damre WP GT

Peacoat





Weight Range: 1.2 - 1.6mm Oil Content: Max 14% NWP Version: Farmington Color Range: Med. to Dark

SATRA: 85%



Farmington WP GT CH British Tan

20



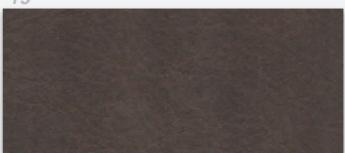
Weight Range: 1.2 - 1.6mm Oil Content: Max 14% NWP Version: Highland Color Range: Med. to Dark

SATRA: 85%



Highland WP GTBlack

19



Weight Range: 1.2 - 1.6mm Oil Content: Max 18% WP Version: Not Available Color Range: Med. to Dark

SATRA: 85%

ion: Max 18% sion: Not Available ange: Med. to Dark GoreTex Approved

Grand Slam GT

Fossil

21



Weight Range: 1.0 - 2.2mm Oil Content: Max 12% NWP Version: Slippery Color Range: Light to Dark

SATRA: 85%



Slippery WP GT Russet Red

Washable





Having footwear easy to clean is essential for product care and longevity. For styles created to be machine washed, look to ISA's offerings which meet the International Standard for commercial laundering, ISO 105-C06. You can be secure knowing the leather color will not fade or stain and the material will not shrink.





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

SATRA: 85%



Washab**l**e

Discovery WP SS Washable Jet Black

24



Weight Range: 1.0 - 1.4mm Oil Content: Max 12% WP Version: Not Available Color Range: Light to Dark

SATRA: 85%

Shazam WashableGinger Spice

23



Weight Range: 1.2 - 1.6mm Oil Content: Max 12% WP Version: Not Available Color Range: Light to Dark

SATRA: 85%



Rejuvenate Washable Peacoat



25



Weight Range: 1.2 - 2.0mm Oil Content: Max 18% NWP Version: Atlas Color Range: Med. to Dark

SATRA: 85%



Abruzzo WP

Black

27



Weight Range: 1.2 - 2.0mm Oil Content: Max 22% NWP Version: Back Track Color Range: Med. to Dark

SATRA: 80%



Back Track WP

Camel

29



Weight Range: 1.0 - 1.4mm Oil Content: Max 12% NWP Version: Brilliant

Color Range: Limited Metallic Finishes

SATRA: 85%



26



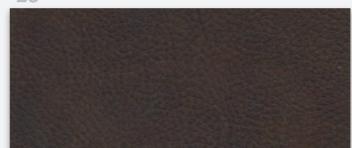
Weight Range: 1.2 - 1.8mm Oil Content: Max 18% NWP Version: AR Rogue Color Range: Med. to Dark

SATRA: 85%



AR Rogue WPMonk's Robe

28



Weight Range: 1.4 - 2.0mm Oil Content: Max 20% NWP Version: Beeswax Color Range: Med. to Dark

SATRA: 85%



Beeswax WP

Meerkat

30



Weight Range: 1.2 - 1.8mm Oil Content: Max 18% NWP Version: Cajun Color Range: Med. to Dark

SATRA: 85%



Cajun WP Dark Coffee



31



Weight Range: 1.2 - 2.2mm Oil Content: Max 16% NWP Version: Connection Color Range: Light to Dark

SATRA: 83%



Connection WP

Bracken

33



Weight Range: 1.2 - 2.2mm Oil Content: Max 20% NWP Version: Crisscross Color Range: Med. to Dark

SATRA: 80%



Crisscross WP

Dark Shadow

35



Weight Range: 1.2 - 1.8mm Oil Content: Max 12% NWP Version: New Vaquer Color Range: Light to Dark

SATRA: 85%



Elegance WP Spinach Green

32



Weight Range: 1.0 - 1.8mm Oil Content: Max 12% NWP Version: Chase Color Range: Light to Dark

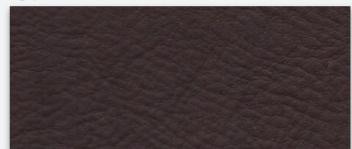
SATRA: 85%



Chase WP

Semolina

34



Weight Range: 1.4 - 2.2mm Oil Content: Max 18% NWP Version: Daytona Color Range: Med. to Dark

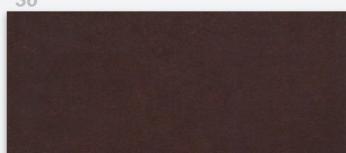
SATRA: 85%



Daytona WP

Mink Oil

36



Weight Range: 1.2 - 2.0mm Oil Content: Max 20% NWP Version: Euroveg Color Range: Med. to Dark

SATRA: 85%



Euroveg WP

Glazed Ginger



37



Weight Range: 1.4 - 1.8mm Oil Content: Max 20% NWP Version: Fusion Color Range: Med. to Dark SATRA: 85%





38



Weight Range: 1.2 - 2.0mm Oil Content: Max 18% NWP Version: Jagged Color Range: Med. to Dark SATRA: 85%



Fusion WP Wineberry

39



Weight Range: 1.0 - 1.6mm Oil Content: Max 20% NWP Version: Journeyman Color Range: Med. to Dark SATRA: 85%



Jagged WP

Nightshadow Blue

40



Weight Range: 1.2 - 2.0mm Oil Content: Max 16% NWP Version: Dev. Required Color Range: Med. to Dark

SATRA: 85%

Brown

42

Kilimanjaro WP



Journeyman WP Saddle

41



Weight Range: 1.2 - 2.2mm Oil Content: Max 20% NWP Version: Biker Color Range: Med. to Dark



Weight Range: 1.2 - 2.0mm Oil Content: Max 18% NWP Version: Maiden Color Range: Med. to Dark

SATRA: 85%



Krakatoa WP

SATRA: 80%

Bruin

Maiden WP Sorrel



43



Weight Range: 1.0 - 1.6mm Oil Content: Max 16%

NWP Version: Maldova / Maldova 83

Color Range: Med. to Dark

SATRA: 80% / 85%



Maldova WP 83

Fossil

45



Weight Range: 1.2 - 2.0mm Oil Content: Max 20% **NWP Version:** Orleans Color Range: Med. to Dark

SATRA: 85%



Orleans WP Leather Brown

47



Weight Range: 1.2 - 1.8mm Oil Content: Max 18% **NWP Version:** Overlord Color Range: Med. to Dark

SATRA: 80%



Overlord WP

Big Ben

44



Weight Range: 1.2 - 2.2mm Oil Content: Max 18% **NWP Version:** Always WP Color Range: Med. to Dark **SATRA:** 80% / 85%



Muddy River WP 83

Leather Brown

46



Weight Range: 1.2 - 1.8mm Oil Content: Max 20% **NWP Version:** Overdrive Color Range: Med. to Dark

SATRA: 85%



Overdrive WP

Madder Brown

48



Weight Range: 1.2 - 1.8mm Oil Content: Max 12% **NWP Version:** Plunge Color Range: Light to Dark

SATRA: 85%



Plunge WP Plum Perfect



49



Weight Range: 1.0 - 1.6mm Oil Content: Max 12% NWP Version: Porcelain Color Range: Light to Dark

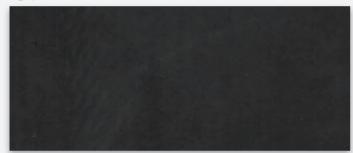
SATRA: 85%



Porcelain WP

Flashy Red

51



Weight Range: 1.2 - 1.8mm Oil Content: Max 18% NWP Version: Revenge Soft Color Range: Med. to Dark

SATRA: 85%



Revenge Soft WP

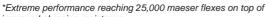
Scarab

53



Weight Range: 1.4 - 2.0mm Oil Content: Max 12% NWP Version: Not Available Color Range: Light to Dark

SATRA: 85%

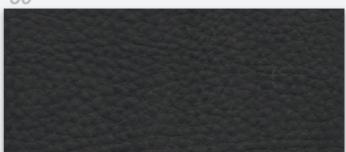


improved abrasion resistance.

Roadrunner WP Dull #7

Black

50



Weight Range: 1.2 - 1.8mm Oil Content: Max 20% NWP Version: Dev. Required Color Range: Med. to Dark

SATRA: 85%



Rapid WP

Black

52



Weight Range: 1.2 - 2.0mm Oil Content: Max 18% NWP Version: River Run Color Range: Med. to Dark

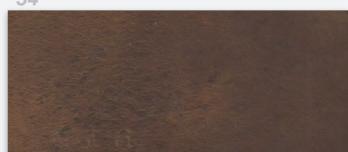
SATRA: 80%



River Run WP

Sudan Brown

54



Weight Range: 1.2 - 2.0mm Oil Content: Max 16% NWP Version: Rowan Color Range: Med. to Dark

SATRA: 85%



Rowan WP

New Earth



55



Weight Range: 1.2 - 2.2mm Oil Content: Max 20% NWP Version: Saddleback Color Range: Med. to Dark

SATRA: 85%



Saddleback WP

Glazed Ginger

57



Weight Range: 1.2 - 1.8mm Oil Content: Max 20% NWP Version: Santro Color Range: Med. to Dark

SATRA: 85%



Santro WP

Charcoal Grey

59



Weight Range: 1.2 - 1.8mm Oil Content: Max 16% NWP Version: Super Lite Color Range: Med. to Dark

SATRA: 85%



Super Lite WP

Demitasse

56



Weight Range: 1.2 - 2.0mm Oil Content: Max 14% NWP Version: Sanehorse LO Color Range: Med. to Dark

SATRA: 85%



Sanehorse WP LO

Sturdy Brown

58



Weight Range: 1.0 - 1.6mm Oil Content: Max 12% NWP Version: Shaun Color Range: Light to Dark

SATRA: 85%



Shaun WP

White

60



Weight Range: 1.2 - 2.2mm Oil Content: Max 20% NWP Version: Tailgate Color Range: Med. to Dark

SATRA: 85%



Tailgate WP

Cashew



61



Weight Range: 1.2 - 2.0mm Oil Content: Max 18% NWP Version: Titan Color Range: Med. to Dark

SATRA: 85%



Titan WPOlive Night

63



Weight Range: 1.2 - 2.2mm Oil Content: Max 20% NWP Version: Trailblazer Color Range: Med. to Dark

SATRA: 85%



Trailblazer WP Teak

65



Weight Range: 1.2 - 2.2mm Oil Content: Max 20% NWP Version: Fury Color Range: Med. to Dark

SATRA: 85%



Watertown WP Red Ochre 62



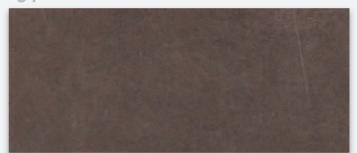
Weight Range: 1.4 - 2.0mm Oil Content: Max 18% NWP Version: Dev. Required Color Range: Dark colors only

SATRA: 80%



Tomahawk WP *Madder Brown*

64



Weight Range: 1.2 - 2.2mm Oil Content: Max 15% NWP Version: Tunis LO Color Range: Med. to Dark

SATRA: 85%



Tunis WP LO Milkshake

66



Weight Range: 1.4 - 2.2mm Oil Content: Max 18% NWP Version: Workhorse Color Range: Med. to Dark

SATRA: 85%



Workhorse WP

Pecan

ISA LITE INDEX

ARTICLE	Liters of Water Saved	MJ of Energy Saved
1 Barrier WP SS	8.74	2.74
2 Blizzard WP SS	8.74	3.07
3 Breathe Easy WP GT SS	8.76	2.73
4 Iceberg WP SS	8.74	2.59
5 Lore WP GT SS	8.74	3.11
6 Manitou WP GT SS	8.74	2.84
7 Riptide Galloper WP SS	8.74	2.98
8 Snowbird WP SS	8.74	2.28
9 Snowplow WP SS	8.74	2.28
10 Voltan WP SS	8.76	2.87
11 Whirlpool WP GT SS	8.74	2.68
12 Ambush WP GT	8.76	2.86
13 Blockbuster WP GT	8.78	3.28
14 Cashmere WP GT	8.24	2.44
15 Commando WP GT	8.57	3.18
16 Cool WP GT	8.74	3.22
17 Damre WP GT	8.74	3.00
18 Farmington WP GT	8.74	3.07
19 Grand Slam GT	8.74	2.69
20 Highland WP GT	8.74	2.99
21 Slippery WP GT	8.83	2.39
22 Discovery WP SS Washable	8.74	2.59
23 Rejuvenate Washable	8.44	2.96
24 Shazam Washable	8.44	2.83
25 Abruzzo WP	8.74	1.81
26 AR Rogue WP	8.74	2.12
27 Back Track WP	8.83	2.41
28 Beeswax WP	8.74	2.81
29 Brilliant WP	8.74	2.61
30 Cajun WP	8.74	2.29
31 Connection WP	8.74	2.75
32 Chase WP	8.74	2.99
33 Crisscross WP	8.74	2.66

ARTICLE	Water Saved	Energy Saved
34 Daytona WP	8.83	2.24
35 Elegance WP	8.76	2.82
36 Euroveg WP	8.74	2.14
37 Fusion WP	8.74	2.84
38 Jagged WP	8.74	2.55
39 Journeyman WP	8.83	2.06
40 Kilimanjaro WP	8.83	2.36
41 Krakatoa WP	9.24	2.29
42 Maiden WP	8.74	2.39
43 Maldova WP 83	8.74	2.70
44 Muddy River WP 83	9.24	2.30
45 Orleans WP	8.74	2.23
46 Overdrive WP	8.83	2.04
47 Overlord WP	9.24	2.23
48 Plunge WP	8.34	2.32
49 Porcelain WP	8.76	2.86
50 Rapid WP	8.18	2.44
51 Revenge Soft WP	8.74	2.06
52 River Run WP	8.74	2.12
53 Roadrunner WP Dull #7	8.83	2.22
54 Rowan WP	8.74	2.84
55 Saddleback WP	8.74	2.76
56 Sanehorse WP LO	8.74	2.75
57 Santro WP	8.74	2.85
58 Shaun WP	8.74	2.53
59 Super Lite WP	9.24	2.61
60 Tailgate WP	8.25	2.42
61 Titan WP	8.83	2.05
62 Tomahawk WP	9.24	2.30
63 Trailblazer WP	8.83	2.49
64 Tunis WP LO	8.74	2.72
65 Watertown WP	8.74	2.24
66 Workhorse WP	8.83	2.81

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