

# Materials Testing



**VAUDE**  
The Spirit of Mountain Sports

Collection	Manufacturer #/ID Test Report Nr.	Test date	Material	Usage	Country	APEO Finish textiles: 10-100 mg/kg Finished Shoes: 100 mg/kg	Tested Materials per Test Report
S14	* HKSL1312240718TX	07.01.2014	Sleeping bag (Hollow fibre)	top/bottom shell, body shell, zipper tape, lining, zipper binding tape, bag shell, bag bottom woven cover, bag drawstring	China	<b>NPEOs: 35 + 18 + 63mg/kg</b> rest: ND	9
S14	* JHKSL1312240715TX	02.01.2014	Sleeping bag (Polyester wadding)	top/bottom shell, body shell, zipper tape, lining, zipper binding tape, inner elastic band, bag shell, bag bottom woven cover, bag drawstring	China	<b>NPEOs: 89mg/kg + 47mg/kg</b> rest: ND	8
W14	<b>4568</b> HKSL1405080025TX	27.05.2014	adult's gloves (87% Nylon 13% spandex)	Print with Shell	Vietnam	ND	1
W14	<b>8548</b> HKSL1404059915TX	29.04.2014	knitted beanie (shell 100% acrylic, lining 100% polyester)	Shell, Sweatband	China	ND	2
W14	* HKSL1406114548FW	15.07.2014	several (adult's shoes)	Upper, Shoelace, Synthetic leather with backing (side, tongue/counter loop), Collar/tongue/Shoe/Sock lining	China	<b>NPEOs: 28+40mg/kg</b> <b>OPEO: 12mg/kg</b> rest: ND	7
W14	* HKSL1404065149TX-01	20.05.2014	Updraft	Shell (hexagon pattern), Webbing at shell, Mesh side pocket, Elastic binding at pocket, Mesh shoulder strap, Webbing at shoulder strap/ at waist strap, Lining	China	<b>NPEOs: 37mg/kg</b> <b>OPEOs: 74mg/kg</b> rest: ND	9
W14	* HKSL1406114573TX	10.07.2014	adult's fabric ( 100% PES)	Shell, Lining, Zipper lining, Shell with back coating, webbing tape, down inside sleep bag	China	ND	7

W14	<b>9010</b> HKSL1405078987TX	26.05.2014	men's shirt (70% PES 30% wool)	Shell	Vietnam	ND	1
W14	*	18.06.2014	kids gloves (100% polyester)	Coated shell, Synthetic leather palm with backing, Velcro, Fleece main lining, Cuff lining, Filling, Inner plastic band, Palm lining, Inner felt	China	<b>NPEOs: 54 + 97 + 53 + 11mg/kg</b> rest: ND	9
W14	*	17.06.2014	kids beanie (100% polyacryl)	Shell, Sweat band lining	China	<b>NPEOs: 64mg/kg</b> rest: ND	2
W14	*	16.06.2014	adult's gloves (100% polyamide)	Shell, Lining, Filling	China	ND	3
W14	*	16.06.2014	kids hat (100% polyacryl)	Shell, Lining	China	ND	2
W14	<b>4557</b> HKSL1405073839TX	20.05.2014	men's woven main (88% PA 12% Pu, inserts: 87% PA 13% elastane, padding: 100% PES, mesh lining 100% PES )	Shell, fleece yoke, Body lining mesh, Inter lining, inner waistband elastic	Vietnam	ND	5
W14	<b>4522</b> HKSL1404069440TX	13.05.2014	men's woven (88% PES 12% elastane, membran: 100% PU, inserts: 100% PES)	Shell, Bottom insert, Pocket/zipper lining, Waistband elastic, Waistband lining mesh, Body lining with plastic backing	Taiwan	<b>NPEOs: 21mg/kg</b> rest: ND	6
W14	*	24.06.2014	adult's woven fleece	Shell, Fake fur lining, Zipper/collar/pocket lining, Inner pocket fabric, Zipper tape, Drawstring elastic shell	China	<b>NPEOs: 110mg/kg</b> rest: ND	7

W14	* HKSL1406113205TX	09.07.2014	several (kids jacket)	Shell, Pocket lining	China	<b>NPEOs: 12 mg/kg</b> rest: ND	2
S15	5510 HKSL1410175917	23.10.2014	Shoecover (Main fabric: 100% elastodiene, Backing: 100% polyamide, Inserts: 90% polyamide + 10% elastane, Inner layer: 100% elastodiene, Backing: 100% polyamide, Cuff: 100% elastodiene, Backing: 100% polyamide, Bottom: 95% polyester + 5% elastane, Inner layer: 100% elastodiene, Backing: 100% polyamide)	Inner binding, Large velcro, Body fabric with foam backing and lining fabric, collar foam with fabric backing, Zipper tape with plastic, Body foam with fabric backing, coated synthetic leather and foam backing and lining fabric, elastic band	China	<b>NPEOs: 47+670mg/kg</b> rest: ND	9
S15	5510 HKSL1410179928TX	21.10.2014	Shoecover (100% elastodiene, backing: 100% polyamide, inserts: 90% polyamide 10% elastane, inner layer: 100%elastodiene, backing: 100% polyamide, cuff: 100% elastodiene, backing: 100% polyamide, bottom: 95% polyester 5% elastane, inner layer: 100% elastodiene, backing: 100% polyamide)	Coated Shell	China	ND	1
S15	5510 HKSL1410179920TX	22.10.2014	Shoecover (100% polyurethane, backing 100% polyester, bottom: 79% polyamide 11% aramid 10% polyurethan)	Coated Shell	China	ND	1

S15	* SCL01G056311	26.11.2014	100% polyamid	MF	China	ND	6
W15	4557 HKSL1506087523TX	19.06.2015	several (Vest)	shell, insert, lining, elastic binding zipper binding tape (centre/pocket), drawstring elastic shell, zipper tape (pocket), inner filling	China	ND	8
W15	4557 HKSL1506084122TX	15.06.2015	several (Warm Pants)	Shell, Drawstring, mesh lining, waistband elastic, Inner filling	China	ND	6
W15	4557 HKSL1506084141TX	19.06.2015	several (jacket women)	shell, fake fur body lining, pocket lining, collar/zipper lining, zipper tape, drawstring core, zipper top/ bottom stop/ teeth	China	ND	7
W15	8548 HKSL1505063273TX	15.05.2015	several (knitted headban)	Shell, lining	China	ND	2
W15	4568 HKSL1505072432TX-01	12.06.2015	kids woven 100% polyester (gloves)	shell with backing, filling, body lining, wrist lining	Vietnam	NPEOs: 160mg/kg rest: ND	6
W15	4527 HKSL1505067004TX	22.05.2015	woven (t-zip pants, 89% polyamide, 11% elastane)	shell, mesh pocket lining	Vietnam	ND	2
W16	8548 SHSL1604082404TX	29.04.2016	knitted beanie 100% Acrylic	MF	China	ND	1
W16	4527 HKSL1606089758TX	04.07.2016	several (jacket women)	MF, lining	China	ND	5
W16	7506 SHSL1605101616TX	18.05.2016	several (Luggage)	MF, lining, polyester mash, piping, bag tape, zipper tape, back side fabric, print with fabric	China	NPEOs: 10 + 11 + 12mg/kg rest: ND	9
W16	5510 (Test 1) SHSL1605098458TX	23.05.2016	several (gloves)	MF, coating with fabric	China	NP: 11+19 mg/kg rest: ND	4
W16	5510 (Test 2) SHSL1606123844TX	07.06.2016	several (gloves)	MF	China	ND	4
W16	5510 (Test 3) SHSL1607172685TX	28.07.2016	several (gloves)	MF, coating with fabric	China	ND	4

W16	<b>7586 (Test 1)</b> HKSL1604056691TX	16.05.2016	several (shoes, kids rascal)	Shoelace, Velcro (textilepart), inter/insock lining, Loop, Synthetic Leather upper/tongue/strap and front toe with fabric backing, upper with foam with fabric backing, front toe/counter trim with fabric and plastic backing, collar/tongue lining with foam and fabric backing,shoe lining with foam and meah backing, sock lining with insock foam backing	Vietnam	<b>NPEOs: 79,7 mg/kg</b> rest: ND	12
W16	<b>7586 (Test 2)</b> HKSL1605075251TX	01.06.2016	several (shoes, kids rascal)	Synthetic leather with backing, fabric with platic fabric backing	Vietnam	<b>NP: 14,91mg/kg</b> <b>NPEOs: 152mg/kg</b> rest: ND	6
W16	<b>7586 (Test 3)</b> SHSL1607168031FW	08.08.2016	several (shoes, kids rascal)	black textile vamp/collar/strap, red textile loop on counter/ eyelet	China	ND	4
S17	<b>8276</b> SHSL1605099991TX	18.05.2016	Woven fabric	MF	China	ND	1
S17	<b>8276</b> SHSL1606137866TX	24.06.2016	Woven fabric	MF	China	ND	1
S17	<b>5869 (Test 3)</b> SHSL1606136308FW	24.06.2016	Webbing	fabric	Vietnam	ND	1
S17	<b>5869 (Test 4)</b> SHSL1606136520FW	29.06.2016	Insole board + cotton	fabric	Vietnam	<b>NPEOs: 75mg/kg</b> rest: ND	1
S17	<b>5869 (Test 8)</b> SHSL1606136308FW	24.06.2016	Webbing	fabric	Vietnam	ND	1
S17	<b>5869 (Test 10)</b> SHSL1606136408FW	21.06.2016	microfiber fabric cutting	fabric	Vietnam	ND	1
S17	<b>5869 (Test 17)</b> SHSL1606136510FW	21.06.2016	cotton drill cloth + hotmelt	fabric	Vietnam	<b>NPEOs: 62mg/kg</b> rest: ND	1
S17	<b>5869 (Test 18)</b> SHS1606136493FW	20.06.2016	non woven fabric cutting	fabric	Vietnam	ND	1
S17	<b>5869 (Test 20)</b> SHSL1606140927FW	24.06.2016	woven fabric cutting	fabric	Vietnam	<b>NP: 17mg/kg</b> rest: ND	1

S17	<b>5869 (Test 22)</b> SHSL1606140949FW	28.06.2016	elastic gore	fabric	Vietnam	<b>NPEOs: 106 mg/kg</b> rest: ND	2
S17	<b>5869 (Test 24)</b> SHSL1607161677FW	15.07.2016	elastic gore	fabric	Vietnam	ND	1
S17	<b>7586 (Test 02)</b> SHSL1605117364FW	01.06.2016	cutting	fabric	Vietnam	<b>NPEOs: 12 mg/kg</b> rest: ND	1
S17	<b>7586 (Test 03)</b> SHSL1605117373FW	02.06.2016	textile mesh cutting + foam	fabric	Vietnam	ND	1
S17	<b>7586 (Test 07)</b> SHSL1605117368FW	01.06.2016	fabric cutting	fabric	Vietnam	ND	1
W17	<b>4568</b> SHSL1609226727TX	29.09.2016	knitted fabric: 100% polyester for gloves	MF	Vietnam	ND	1

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\* = no current supplier  
relationship

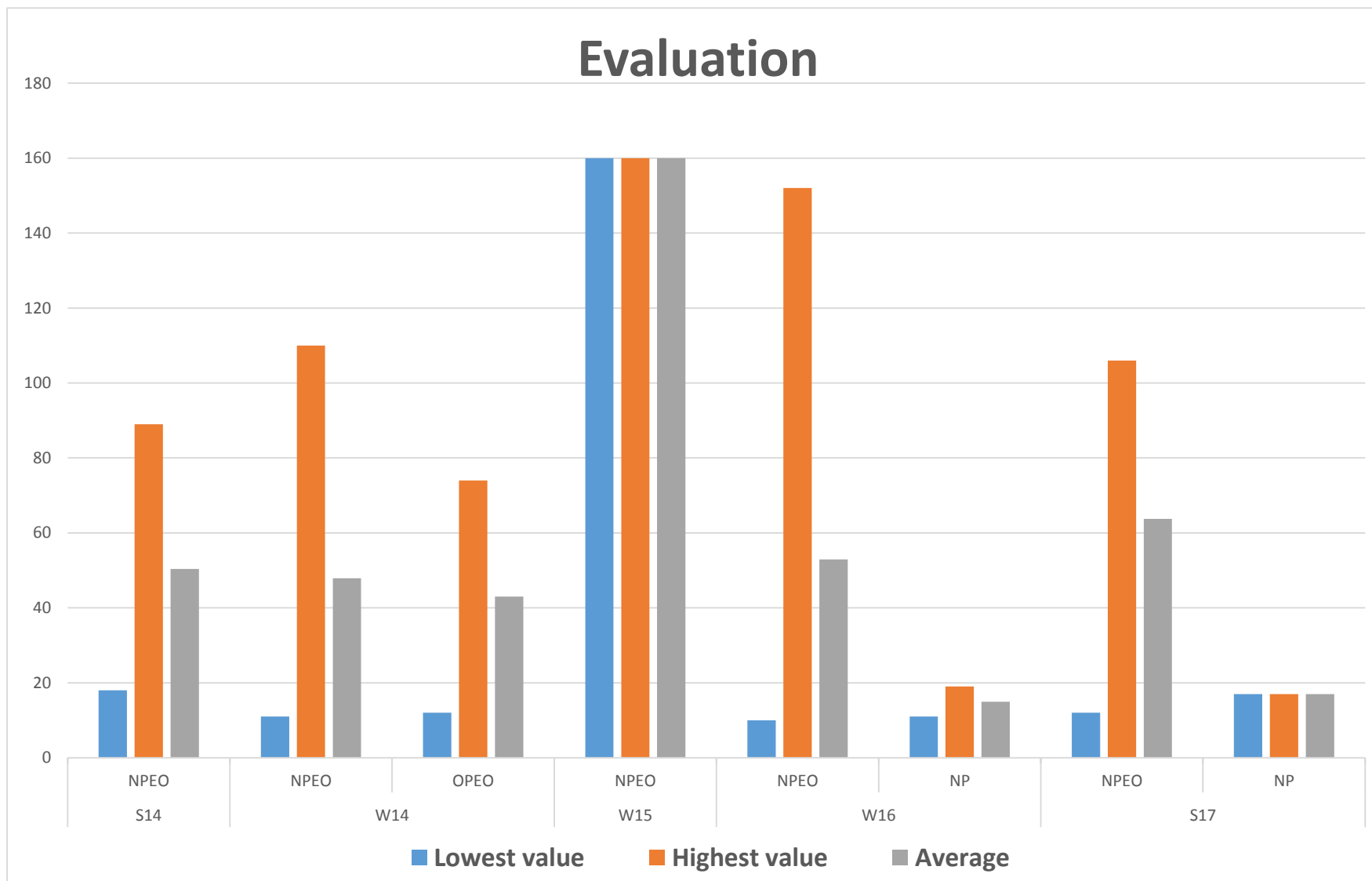
# Material Testing



Season	APEO	Test results [mg/kg]											MRSL APEO Requirements	Lowest value	Highest value	Average
S14	NPEO	18	35	47	63	89	-	-	-	-	-	-	Finish textiles: 10-100 mg/kg Finished Shoes: 100 mg/kg	18	89	50,4
W14	NPEO	54	97	28	40	37	53	11	64	21	110	12		11	110	47,90909091
	OPEO	12	74	-	-	-	-	-	-	-	-	-		12	74	43
W15	NPEO	160	-	-	-	-	-	-	-	-	-	-		160	160	160
W16	NPEO	10	11	12	79,7	152	-	-	-	-	-	-		10	152	52,94
	NP	11	19	14,91	-	-	-	-	-	-	-	-		11	19	14,97
S17	NPEO	75	62	106	12	-	-	-	-	-	-	-		12	106	63,75
	NP	17	-	-	-	-	-	-	-	-	-	-		17	17	17

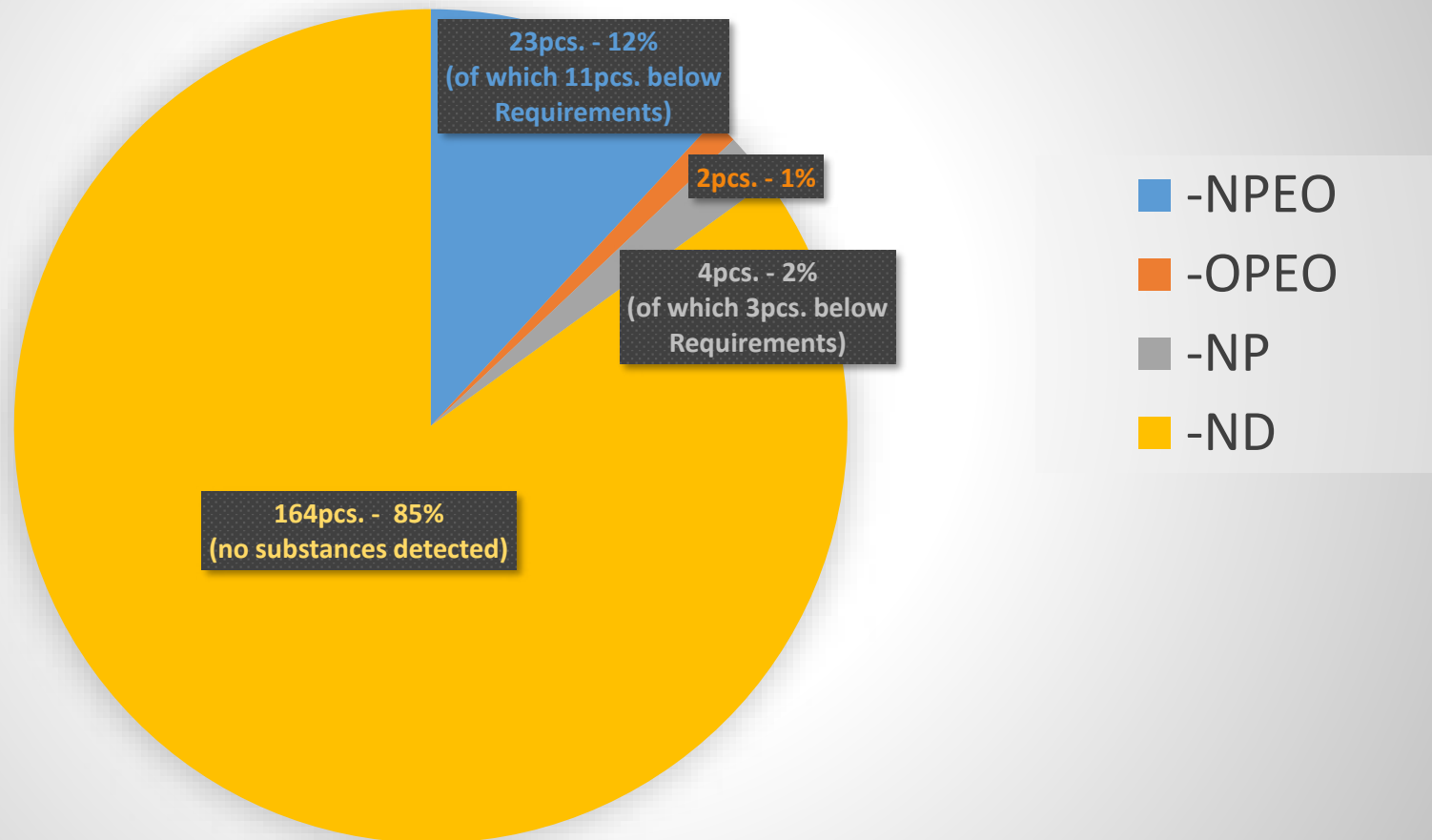
Explanation:	
<b>S14</b> = Summer 2014	<b>NPEO</b> = Nonylphenols ethoxylates
<b>W14</b> = Winter 2014	<b>OPEO</b> = Octylphenol ethoxylates
<b>W15</b> = Winter 2015	<b>NP</b> = Nonylphenols
<b>W16</b> = Winter 2016	
<b>S17</b> = Summer 2017	

# Evaluation





## Tested Materials (193 pcs.)



<b>Category</b>	<b>Tested Materials</b>
-All	193
-NPEO	23
-OPEO	2
-NP	4
-ND	164

Date: 16.01.2017

# Wastewater Testing



**VAUDE**  
The Spirit of Mountain Sports

Supplier #/ID	Test date	Country	MRSL Requirements for APEO	APEO (mg/kg)			
				Incoming Water 1 µg/l	Wastewater Before Treatment 1 µg/l	Wastewater after Treatment 1 µg/l	Sludge 1µg/l
50	03.11.2016	Taiwan	Sludge: 1 mg/kg Water: 1 µg/l	ND	ND	ND	OP: 1,1 (µg/kg) NP: 9,6 (µg/kg) rest: ND
29	21.10.2016	Korea	Sludge: 1 mg/kg Water: 1 µg/l	NPEO: 0,0017 (µg/l) rest: ND	ND	-	-
46	19.10.2016	Taiwan	Sludge: 1 mg/kg Water: 1 µg/l	ND	ND	ND	ND

Explanation:	
MF = Mainfabric	no chemicals detected/ chemical values below Requirements
ND = not detected	<b>Red font:</b> chemical values unsatisfying <b>Green font:</b> chemical values below Requirements