

HSE/HSL Footwear slip resistance testing results - updated April 2009

Notes on using this table

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3: Footwear which performed well on wet steel might be expected to perform well on other surfaces, so were selected for further testing. Footwear which presented a high slip potential on wet steel would be likely to present a high slip potential on both steel and quarry tile with glycerol contamination, so such further testing was not considered necessary. Footwear presenting a low or moderate slip potential on wet steel were tested further on both steel and quarry tile with glycerol contamination. Only footwear which presented a low slip potential on wet steel were tested on chequer plate. These restrictions were imposed to limit the amount of testing required.

Shoe	Shoe Type	Date Tested	Marketed As Slip Resistant	Sole Construction	Wet Coefficient of Friction (CoF)				
					Steel / Water	Steel / Glycerol	Quarry Tile / Glycerol	Chequerplate / Water	Chequerplate / Glycerol
Shoes For Crews (Easy clean grid pattern)	♣ Slip-On Shoe	2007	Yes	Weltd Rubber	0.54	0.21	0.40	0.49	0.24
Shoes For Crews (SFC3)	Dress shoe, Boot, Trainer, Wellington. Toe protection available	2005	Yes	Weltd Rubber	0.52	0.31	0.40	0.51	0.27
Agrip Wellington	♣ Wellington. Toe protection	2007	Yes	Rubber	0.52	0.17	0.35	0.42	0.24
Hyper V Sole Spider Max Black	Trainer and Wellington. Toe protection	2006	Yes	Rubber	0.51	0.18	0.34	0.51	0.34
Safetrax	♣ Slip-on, trainer, dress shoe	2009	Yes	Unknown	0.44	0.21	0.46	0.61	0.24
Keuka Café	Shoe, Boot, Trainer. Toe protection	2006	Yes	Rubber	0.41	0.24	0.50	0.54	0.34
Dickies Skate Shoe	♣ Trainer	2007	Yes	Rubber	0.43	0.21	0.44	0.46	0.28
Dickies Sport Low-Cut Trainer	♣ Trainer	2007	Yes	Rubber	0.41	0.16	0.37	0.45	0.25
Slip Grips – Spider Grip sole (5332)	Shoe, Boot, Slip-on. Toe protection	2005	Yes	Rubber	0.41	0.17	0.39	0.49	0.28
Wat-Out 58167	♣ Slip-on Boot	2007	No	P.U.	0.39	0.18	0.31	0.40	0.24
Inyati Wellington (127)	Wellington. Toe protection	2006	Yes	PVC / Nitrile Rubber	0.39	0.11	0.38	0.57	0.23
Arco Safety STOP	♣ Slip-on, trainer, dress shoe, boot. Toe protection available	2009	Yes	Rubber	0.38	0.19	0.39	0.59	0.28
TredSafe (Chef)	Slip-on shoe. Other styles are available.	2006	Yes	Rubber	0.38	0.18	0.55	0.58	0.26
Steitz Secura SST8	♣ Shoe. Toe protection available.	2009	Yes	Unknown	0.37	0.14	0.27	0.51	0.21
Dunlop Purofort – High Grip	Wellington. Toe protection	2005	Yes	Nitrile Rubber	0.38	0.15	0.27	0.40	0.23
Cat Supremacy Boot	♣ Boot. Toe / Mid sole protection	2009	Yes	Rubber	0.38	0.08	0.23	0.54	0.21
Goliath Atomium (Atom63)	Slip-on ankle boot, Slip-on shoe, Trainer. Toe protection	2006	Yes	Dual Density P.U.	0.37	0.14	0.32	0.35	0.20
Bata Industrials (Thor 705-69911)	Safety Boot/ Toe / Mid-sole protection.	2006	No	Dual Density P.U.	0.37	0.12	0.20	0.42	0.22
Magnum Duty Lite	♣ Shoe. Toe protection available	2009	Yes	Rubber	0.36	0.15	0.32	0.42	0.22
V6 Powergrip V6115 Chukka boot	♣ Boot	2009	Yes	3 densities of PU + TPU	0.36	0.14	0.22	0.42	0.19
Uvex Classic (8451.9) – Ultra Grip sole	Safety Boot. Toe protection	2005	No	Nitrile Rubber Outer / P. U. Core	0.36	0.05	0.20	0.48	0.24
Schurr A (1133301)	Shoe.	2005	Yes	Rubber with cork inclusions	0.35	0.06	0.17		
Aimont Safety Shoe (774400)	Shoe. Toe protection	2005	No		0.35	0.13	0.20		
Forma Oilmaster	♣ Boot	2007	No		0.35	0.16	0.19		
Bata Safemaster	Wellington. Toe / Midsole protection	2005	Yes	Nitrile Rubber	0.34	0.05	0.20		
Emma Venus	Shoe. Toe protection	2005	No	Dual Density P.U.	0.34	0.15	0.26		
ABS (ABS220P)	Shoe, Boot. Toe protection available	2005	Yes	P.U.	0.33	0.16	0.34		
Keuka Café Overshoe	Overshoe	2006	Yes	Rubber	0.33	0.17	0.36		

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Tuskers 632 Unisex Safety Shoe	Shoe, slip-on. Toe protection	2006	Yes	P.U.	0.33	0.20	0.39		
Centek (FS140)	Rigger Boot. Toe / Midsole protection	2005	No	Dual Density P.U.	0.32	0.09	0.22		
Uvex Quattro – (8411.2)	Safety Boot. Toe / Midsole protection	2005	No	Nitrile Rubber Outer / P. U. Core	0.32	0.09	0.17		
Otter 93609	Shoe. Toe protection	2006	No	Thermo Plastic Urethane / P.U.	0.32	0.12	0.17		
Globe Trotter Rigger Boot, Contract Range	Rigger Boot. Toe / Midsole protection	2006	No	Dual Density P.U.	0.32	0.08	0.21	0.33	0.18
Bacou Dalloz Energy	♣ Boot	2007	No		0.31	0.09	0.18		
Abeba Clog	♣ Slip-on Clog	2007	Yes	P.U.	0.31	0.15	0.28		
Arco Sandyderm – Cofra Aderplus sole (6641)	Slip-on shoe. Toe protection. Other styles are available.	2005	Yes	P.U,	0.31	0.11	0.30		
Cofra Minorca Safety Shoe with Corfa Wave Sole	Shoe, Boot, Trainer, Slip-on. Toe / Mid-sole protection	2006	Yes	Thermo Plastic Urethane / P.U.	0.30	0.14	0.24		
Otter 98402	Shoe. Toe protection	2006	No	Thermo Plastic Urethane / P.U.	0.30	0.09	0.16		
Dunlop Acifort	♣ Wellington, Toe protection	2007	No	PVC / Nitrile Rubber	0.30	0.13	0.16		
Tuf (P5600)	Office Shoe. Toe protection	2005	No	Dual Density P.U.	0.29	0.10	0.20		
Footsure Mudguard Gibson (FS65)	Office Shoe. Toe protection	2005	No	Thermo Plastic Urethane	0.29	0.16	0.18		
Jalas Tandem Sport Geox (5910)	Office Shoe	2005	No		0.29	0.13	0.21		
Tuskers Aquagrip Boot 388	Office Shoe, Dress Boot, Boot. Available with Toe / Mid-sole protection	2006	Yes	Dual Density P.U.	0.28	0.16	0.30		
Sievi Solid XL+	Boot. Toe / Midsole protection	2006	No		0.28	0.13	0.32		
Dunlop Purofort Rig – Air	Rigger Boot. Toe / Midsole protection	2006	No	Dual Density P.U.	0.28	0.05	0.19		
Heckel MacSilver (NEW SOLE)	♣ Boot	2007	No	Dual Density Rubber	0.27	0.16	0.21		
Jallatte Jaldonnel SAS Boot. Tritane sole	Shoe, Boot, Trainer. Toe / Mid-sole protection	2006	No	Dual Density P.U.	0.27	0.08	0.23		
Bekina Steplite Wellington	♣ Wellington. Toe / Midsole Protection	2007	Yes	P.U.	0.27	0.11	0.22		
Uvex Xenova (6940.8)	♣ Boot, Toe protection	2007	Yes	Dual Density P.U.	0.27	0.20	0.35		
Gaston Mille Louisiana Clean Sole safety Boot	Boot. Toe / Midsole protection	2006	No		0.27	0.15	0.20		
Arco Boot - Cofra Supergrip “Flag sole” (F88)	Boot. Available with Toe / Midsole protection	2005	Yes	Nitrile Rubber Outer / P.U. Core	0.26	0.13	0.26		
Inyati Clog	Slip on clog. Toe protection	2006	No	PVC / Nitrile Rubber	0.25	0.07	0.17	0.61	0.25
Panther Dakota (21094 14 S3)	Safety Boot. Toe protection	2005	No		0.25				
Bata Hazmax (892-77210K)	Wellington. Toe / Midsole protection	2005	Yes	Vulcanised Rubber	0.25		0.12		
Arco Lavoro Brad Boot	♣ Dress Boot	2007	Yes	PU / Rubber	0.25				
Arco Basics Wellington (587500)	Wellington	2006	No	PVC / Nitrile Rubber	0.25				
Cofra Stanton Off-Road Sole Safety Boot	Shoe, Boot, Rigger Boot. Toe / Mid-sole protection	2006	No	Nitrile Rubber Outer / P.U. Core	0.23				
Bacou BacRun 783 safety Boot	Boot. Toe / Midsole protection	2006	No		0.23	0.10			

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Ruff Lander (S17)	Boot. Toe protection	2005	No	Vulcanised Rubber	0.23			
Dunlop Wellington Shoe	♣ Slip-on Wellington Shoe	2007	No	PVC	0.23			
Ruff Lander (S64)	Rigger Boot. Toe / Midsole protection	2005	No	Vulcanised Rubber	0.20			
Ergoli / Inyati CB4 Boots	Ankle Wellington. Toe protection	2006	No		0.20			
Precision Wheat Ankle Boot (8801)	Boot. Toe protection	2005	Yes	Nitrile Rubber Outer / P. U. Core	0.18		0.14	
Dr. Martens Grip Trax	Boot. Toe protection	2005	Yes	Rubber Outer / P. U. Core	0.18		0.09	
Magnum Patrol	Boot. Available with Toe / Midsole protection	2006	No	Nitrile Rubber	0.18			
Crocs Gold Slip-on Clog	♣ Slip-on Clog	2007	Yes	Foam Resin	0.18			
Precision Black Trainer (5500)	Trainer. Toe protection	2006	Yes	Dual Density Phylon / Nitrile rubber	0.17		0.09	
Quiva (Quiva 06/A)	Medical Clogs	2006	Yes	Thermostatic	0.15		0.10	
Dr. Martens Tred safety Chukka Boot (6G8100)	Safety Boot. Toe protection	2006	Yes	Nitrile Rubber	0.15		0.11	
Trojan Elite H64 Black Safety Shoe	Shoe. Toe / Mid-sole protection	2006	No	Rubber	0.13			
Four-S Shoe	Standard shoe sole	2006	No	Four-S rubber	0.07	0.01		0.23 0.10