STEP UP IN COMFORT

V12 FOOTWEAR®



COMFORT MEANS STANDING FIRM

INVINCIBLE IGS V2180

IGS™ Intelligent Grip System

SPECIFICATION SHEET

Description

A waterproof and breathable safety boot constructed from water resistant black leather hide, featuring a scuff resistant toe and heel for durability. A patented metatarsal protection system including graphene enforced carbon fibre strap outperforms all other brands in metatarsal impact resistance. Advanced cushioning material safeguards ankles from impact. Lightweight and metal-free, it is built on the V12 comfort shape last and has an improved shock absorbing foot-bed for daylong comfort.

Safety Specification

EN ISO 20345:2011 S3 AN HRO M WR SRC

ANTI-STATIC

HEAT-RESISTANT

METAL-FREE

WATERPROOF + BREATHABLE

COMPOSITE MIDSOLE

COMPOSITE TOECAP

KENNEDY GRATING SLIP-TESTED

SCAFFOLD BOARD SLIP-TESTED

IMPACT RESIST ANKLE PROTECTION

METATARSAL PROTECTION

Size

Available in sizes: 3 -14 (36 - 49) including 6.5 and 10.5

Upper

S3 waterproof leather with fully waterproof and breathable lining. A full bellows tongue helps to prevent dirt and water ingress, and an ergonomic padded collar provides additional comfort when driving.

Lining

Moisture wicking and highly breathable lining keeps feet cool in summer and warm in winter.

Footbed

Heel pump shock absorbing foot-bed. Contoured to support the foot, breathable, comfortable and hard-wearing with air channels to wick moisture and reduce heat build-up and odour.

Toecap

Nanotechnology used to make incredibly strong yet lightweight wide fitting composite toecaps, which are also non sparking and thermal insulating. Tested to impact of 200 Joules.

Protective midsole

A woven fibre midsole designed to protect from sharp objects entering underfoot.

Sole

GRIP 2018

Inspired by tyre technology and made from highly durable rubber, the IGS sole unit features a unique hexagonal tread ensuring superior traction. Ladder grips offer firefighter levels of safety and a re-designed heel strike pad delivers exceptional water dispersal. The IGS is heat resistant to approximately 300°C and tested to HI spec in accordance with EN ISO 20345:2011. Non-marking and resistant to diesel, fat, acid and alkali.

Weight

853g* based on a size 8 (42).

Warranty

We design our boots to the highest standard to ensure they keep you safe day after day. We're so confident that our boots will stand the test of time, that we offer a 200 day guarantee as standard.

©V12 Footwear

Take comfort in the safety features

Classification	Test Performed	Safety Standards				
		S1	S2	S3	SBP	S1P
SB	Toe protection tested with 200J impact and 15kN compression force	✓	✓	✓	✓	✓
P	Penetration resistant outsole tested at 1100 newtons			✓	✓	✓
A	Electrical resistance between foot and ground of between 0.1 and 1000 mega ohms	✓	✓	✓		✓
E	Energy absorption of the seat region tested at 20 joules	✓	✓	✓		✓
WRU	Water resistant upper leather		✓	✓		

Additional test classifications

HRO	Heat resistant outsole compound tested at 300°C
CI	Insulation against the cold - temperature drops less than 10°C when tested at -17°C
M	Metatarsal protection - tested to 100J impact
SRA	Slip resistant on ceramic tile floor with sodium lauryl sulphate solution
SRB	Slip resistant on steel floor with glycerol
SRC	Slip resistant for both SRA and SRB

Foot comfort advice

When you spend all day on your feet, discomfort can cause all manner of medical problems, beyond simple aches. We've spent years researching the strains your feet come under and have prepared this chart to help you diagnose and alleviate some common causes of discomfort.

Complaint	Possible cause	Suggested action
Ingrowing Toenail Very painful if knocked.	Nails cut too short.	Cut nails square and wear wide fitting footwear with padded interior to protect toes.
Aching feet	Stiff footwear or footwear that flexes in the middle of the arch instead of at the ball of the foot.	Wear footwear with a shank – this means footwear bends with the foot and not against it.
Athlete's foot A fungal infection that thrives in dark damp places.	Sweaty footwear, or damp footwear that has not been allowed to dry out. Fungal infections can spread very quickly from one foot to the other.	Wear breathable footwear and make sure shoes dry out well overnight. Full grain leather is essential if leather footwear is required. Buy a new pair of insoles and use a recommended powder, available from chemists.
Hammer toe Toe(s) curl over and stiffen in an unnatural position.	Footwear that is too small or too narrow, causing toes to bunch up.	Wear footwear that is wider fitting and the correct size. All the V12 Footwear is wide fitting.
Bunions/corns Hard patches of skin on toes.	Narrow-toed ill-fitting footwear.	Wear wider fitting footwear to ensure feet have plenty of room.
Plantar fasciitis Inflammation of tissue on the bottom of the heel.	Poor quality footwear with little or no shock absorption.	Wear the correct arch fitting Dynamic Arch insole to alleviate pain. If pain persists for more than one month consult a doctor or podiatrist.

Footwear care

Keep your footwear in top condition to maintain its comfort and extend its life.

1 Remove footbeds

At the end of a day's work, take out the footbeds and allow them to dry out and air properly overnight. Otherwise, dampness inside your footwear can cause bad odors and allow bacteria to thrive.

2 Regular cleaning

Brush the worst off muddy boots before wiping them with warm water. Allow them to dry out naturally – placing them on a warm boiler or in an airing cupboard can cause the leather to crack.

3 Insole care

Once a month, take out the insoles and run them through the washing machine for a freshen up.

4 Leather care

Getting footwear wet on a regular basis will eventually cause the leather to dry out and crack. To combat this, treat your boots occasionally with Chelsea Leather Food – this will rejuvenate the leather and keep its water resistant qualities.

5 Don't forget the socks!

Good quality socks made of natural material such as cotton will make all the difference to your comfort, providing good cushioning and wicking away moisture.

COMFORT MEANS A BOOT WELL WORN

At V12, we walk in our shoes first. From railway tracks to building sites, our fleet of V12 test pilots put our footwear through its paces. Years of research and development are stitched into every pair. The result? Safety boots that are as comfortable as the day is long.

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