

Article **MAC**
 Category EN ISO **S3 SRC**
 Sizes **36 - 47**
 Width **11**
 Weight (half pair, sz 42) **440 gr**
 Metal free **No**
 Certification **CE**



CHEM & FOOD collection

UPPER	water resistant microfiber
LINING	extremely breathable polyamide lining. It absorbs moisture quickly and ensures a greater comfort during the whole working day. Optimal resistance to abrasion and anti-bacterial
TOE CAP	aluminium 200J. Ergonomic shape to improve comfort and shoe design. 50% lighter than steel toecaps
ANTI-PERFORATION MIDSOLE	non-magnetic, perforation resistance composite fabric plate. It is 40% lighter and more flexible than steel plate and at the same time guarantees an optimal protection covering 100% of the foot surface. Certified EN 12568:2010
FOOTBED	insole PU 10mm expanded, covered with antibacterial fabric
SOLE	KEM PU double density, flat for better stability. Excellent slip resistance

	Requirements	Test Results
UPPER	EN ISO 20345:2011	Results
Water Vapour Permeability	mg/cm ² *h ≥ 0,8	4,1
Water Vapour Coefficient	mg/cmq ≥ 15	48,7
LINING		
Water Vapour Permeability	mg/cm ² *h ≥ 2	5,9
Water Vapour Coefficient	mg/cmq ≥ 20	53
TOECAP		
Impact resistance: clearance under the toecap	mm ≥ 14	14
Compression resistance: clearance under the toecap	mm ≥ 14	15,5
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	MΩ ≥ 0,1	4
- dry condition (30% relative humidity)	MΩ ≤ 1000	178
SOLE		
Abrasion resistance: relative volume loss	mm' ≤ 150	35
Flexing resistance: cut growth	mm ≤ 4	0
Resistance to fuel oil: volume increase	% ≤ 12	1,2
Energy absorption of seat region	J ≥ 20	21
Slip resistance on steel ground with glycerine	7° Heel ≥ 0,13	0,16
	Flat ≥ 0,18	0,31
Slip resistance on ceramics ground with detergent	7° Heel ≥ 0,28	0,29
	Flat ≥ 0,32	0,45

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ALU-S

Shield PRO

MULTIPOWER

