

# At 360 Grams, The New Super Lightweight Champ



The Speedglas™ brand stands for cutting edge protective equipment for welders. Its range of products includes Speedglas™ Auto-Darkening Welding Shields and Adflo™ Powered Air Respirators.



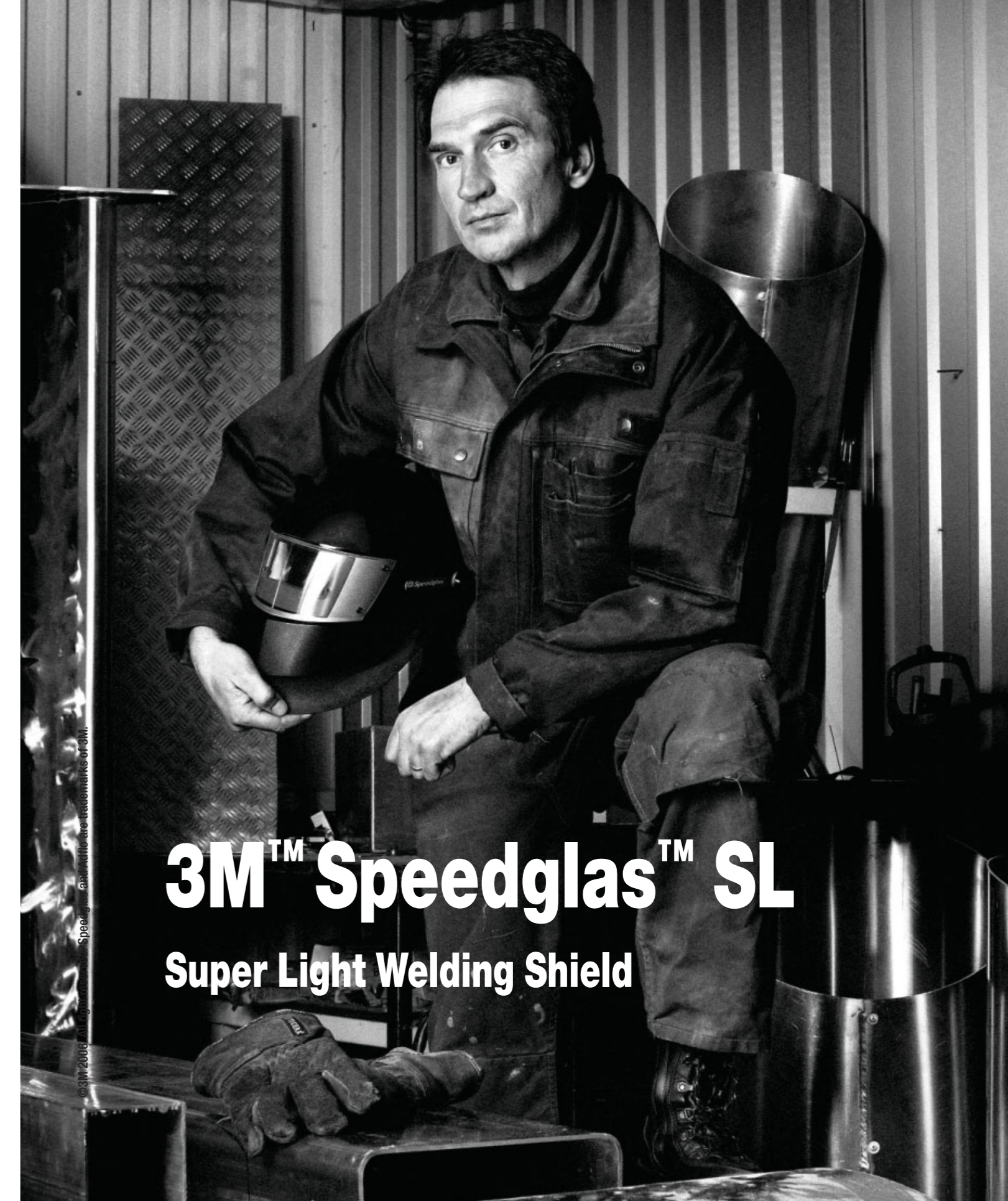
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**3M™ Speedglas™ SL**  
Super Light Welding Shield

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 **Speedglas™**

Welders have asked for two things in personal protection: lighter weight and more comfort. Our challenges in designing an all-new shield were to significantly reduce its weight, while maintaining the performance and protection that welders worldwide have come to expect in every 3M™ Speedglas™ product. The result of our efforts: a 360 gram auto-darkening welding shield!



### The filter: lighter, but with all the performance

Using new liquid crystal designs and manufacturing techniques, we are able to make the Speedglas SL auto-darkening filter much lighter than our other models, but with the same outstanding optical quality and switching performance.

The Speedglas SL welding filter can be used with most arc welding processes – such as

MMA, MIG/MAG, TIG and plasma welding. It is particularly appropriate for low-to-moderate amperage welding (0.1 to 250 amps), with four user-selectable sensitivity settings and five dark state levels: 8, 9, 10, 11 and 12.



### The shield: stronger, thinner

The Speedglas SL welding shield is made from a strong lightweight material with excellent protection. Unlike other materials that can absorb moisture and become heavy, the Speedglas SL shield is non-absorbent, so it retains its performance in high humidity. And we didn't cut weight by simply shrinking its size: the Speedglas SL shield's facial coverage is virtually identical to our Speedglas 9000 series.

A new motion detector automatically turns the filter on and off as the welder picks up or sets

down the shield. The outer protection plate can be quickly removed and replaced by simply grasping the plate by hand.

A snap adjustment where the shield attaches to the headband allows the welder to select one of four different settings, moving the shield either closer to or further away from his face. These back-and-forth adjustments allow for a variety of personal preferences – as well as differences in nose sizes, safety glasses, or the use of 3M respirators. The user can also adjust the tilt of the shield to set a preferred viewing angle.

### The Headband: Fits Better, Feels Cooler

The new headband design uses a pattern of holes for breathability and better conformity to the welder's head. Resizing the headband, or loosening it for removal, is as easy as a quick squeeze of the thumb and finger – the welder can do it with one hand, without even removing his glove. The headband also accommodates smaller head sizes; its full range is from 50 cm to 64 cm.



### Technical Data

Technical Data 3M™ Speedglas™ SL Welding Shield	
Approvals Eye Protection Face Protection	Conforms to EN 379 EN 175
Classification	1 / 1 / 1 / 2
Switching time, light-to-dark	0,1 ms (+23°C)
Switching time, dark-to-light	60–250 ms
UV/IR Protection	Shade 12 (permanent)
Viewing Area	42 x 93 mm
Light state	Shade 3
Dark state	Shade 8 – 12 (variable)
Weight	360 g (incl welding filter)
Battery type	Lithium 3 Volt
Battery life time	1 500 hours
Range of temperature Use Storage	-5°C to +55°C -30°C to +70°C

Note: The Speedglas SL welding filter cannot be installed into the Speedglas 9000 or Speedglas Utility shields. The Speedglas SL shield is not available with CO<sub>2</sub> reduction, SideWindows™ or powered and supplied air respiratory systems.