



Affinity FLS Folded Respirators

Gentle as a Summer Breeze

Affinity FLS

Comfort. Performance. Protection.

Affinity FLS is the new generation of foldable disposable respirators from MSA. Its high-performance thin and light filtering media makes you feel as if you are not wearing a mask, but simply being protected. Affinity FLS feels as gentle as a summer breeze against your face.

Affinity folded respirators offer effective protection against penetrating solid and liquid aerosol particles present in various work environments. Meeting the requirements of EN 149:2001, the different types of mask conform respectively to protection levels FFP1, FFP2 and FFP3. A colour coding system ensures easy identification and helps you select the right kind of mask for any given application.



Excellent Comfort

Affinity FLS features extremely light and thin filtering media, providing a comfortable fit even when used for longer periods. The vertical fold ensures an ergonomic face seal. The low-profile design of Affinity FLS makes it ideal for use under welding hoods or in any tight spot where a respirator must be worn. A pre-shaped nose clip allows for easy contour adjustments to achieve a snug fit that prevents exhaled breath from escaping and fogging safety glasses.

High Performance

The optional available exhalation valve of Affinity FLS optimises the air flow by removing warm exhaled breath. The reduced temperature and moisture vapour make breathing easier. Affinity is dolomite tested to guarantee better breathing comfort and longer service life, particularly in high dust environments. Due to the exceptional quality of the filtering media, Affinity FLS masks have a storage life of 5 years, from the date of manufacture.

Optimal Protection

The smooth inner lining of Affinity FLS provides a secure and comfortable seal. The elastic band ensures easy donning and doffing and a good tight fit for all face and head sizes. Affinity offers “one-size-fits-all” convenience without compromising effectiveness. Due to its individual wrapping, Affinity FLS can be carried on the job, when not in use. Even in dirty environments, it will remain clean and hygienic. With its small size, the respirator fits easily into any pocket, ready for immediate use.

The special Odour Removal version Affinity FR FFP2 offers relief from low-level concentrations of acid gases (including HF), below TLV (nuisance levels).



Reasons for Choosing Affinity FLS

	Features	Benefits
Excellent wearer comfort	Thin and light material	Comfortable fit all shift long
	Vertical fold	Provides an ergonomic face seal
	Low profile	Ideal for use in combination with other PPE
	Pre-formed nose clip	Prevents fogging of safety spectacles
High performance	Exhalation valve (optional)	Prevents heat build-up and reduces breathing resistance
	Dolomite tested	Longer service life in high dust environments
Optimal protection	Smooth inner lining	Provides a tight seal
	Elastic head band	Perfectly adapts to different face/head sizes
	Hygienic pocket-size packaging (individually wrapped)	Always ready for use
	Colour coding according to filter class	Allows quick identification
Cost effectiveness	Universal size	Reduces inventory and simplifies selection
	High filter media quality	Provides 5 years storage life



Examples of Applications

Application	Protection class	Colour code
Grinding, sanding, cutting, sweeping, sawing, bagging	FFP1	Green
Machining, welding, brazing, plastering, insulation installation	FFP2	Yellow
Pharmaceuticals, industrial processes, asbestos environments	FFP3	Red

Technical Data

Materials		Service Time	
Filter media	Polypropylene	Maximum duration of use: 8 hours within one shift (not reusable)	
Elastic headband	Natural latex (Affinity FLS) Natural rubber, polyester (Affinity FR)	Approvals	
Valve housing	Polypropylene	EN 149:2001	
Valve membrane	Vulcanized rubber	Russia, Kazakhstan: GOST R 12.4.191-99	
Nose clip	Steel, polypropylene	Belarus: STB GOST R 12.4.191-2006	
Nose foam	Polyurethane	Ukraine: DSTU EN 149:2004	
Plastic attachments (Affinity FR)	Polypropylene	Tests	
Storage Life		120 mg loading test (as required in amendment A1:2006 to EN 143:2000)	
Affinity FLS	5 years, from the date of manufacture (under proper storage conditions)	Dolomite dust test (resistance to clogging and longer service life under high dust exposure)	
Affinity FR OR (FFP2)	3 years, from the date of manufacture (under proper storage conditions)		

Ordering Information

Affinity FLS	Protection class	Units per box	Boxes per carton	Carton size in cm	Carton weight in kg
10097425 Affinity FLS	FFP1 D	15	12	33.5 x 30.5 x 49.0	2.9
10097426 Affinity FLS-V	FFP1 D	15	12	33.5 x 30.5 x 49.0	3.7
10097427 Affinity FLS	FFP2 D	15	12	33.5 x 30.5 x 49.0	3.1
10097428 Affinity FLS-V	FFP2 D	15	12	33.5 x 30.5 x 49.0	3.9
10097429 Affinity FLS-V	FFP3 D	15	12	33.5 x 30.5 x 49.0	4.1

Affinity FR (Odour Removal)	Protection class	Units per box	Boxes per carton	Carton size in cm	Carton weight in kg
10070802 Affinity FR OR	FFP2 D	15	12	33.5 x 30.5 x 49.0	5.3
10070803 Affinity FR-V OR	FFP2 D	15	12	33.5 x 30.5 x 61.0	5.5

V: With exhalation valve
D: Dolomite dust tested
OR: Odour Removal (providing nuisance relief)

For the cup-shaped Affinity Plus line please see leaflet 28-100.2.



Affinity FLS



Affinity FR (Odour Removal)

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