

# Certificate

## EC Type-Examination



No. CE 539748

Issued to:

3M United Kingdom Plc  
3M Centre  
Bracknell  
Berkshire  
RG12 8HT  
United Kingdom

In respect of:

Respiratory protective devices to EN 12941:1998  
Powered filtering devices incorporating a hood  
Model Range: Based on the 3M™ S-657 Headtops  
See pages 2 to 4 for details.

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination.

For and on behalf of the British Standards Institution, a Notified Body for the above Directive (Notified Body Number 0086):

David Ford, Managing Director, BSI Product Services

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### Product Details:

**Product name:** Headtop based Powered Air Respiratory Protective Systems.

**Product type:** Powered air filtering devices incorporating a hood.

**Models:** 3M™ S-657 Headtop - 3M™ Dustmaster™ system  
(standard industrial product).  
3M™ S-657 Headtop - 3M™ Jupiter™ system  
(standard industrial product).

**Technical Specifications:** Harmonized European Standard EN 12941:1998.

**EN 12941 classifications:** 3M™ Dustmaster™ system: TH1.  
3M™ Jupiter™ system: TH3.

The product assessments for the respiratory protection were based on BS EN 12941:1999, the English language version of EN 12941:1998, respiratory protective devices - powered filtering devices incorporating a helmet or hood. In BS EN 12941 clause 7.12.2, the test method for the particle filter efficiency assessment, references prEN 143. prEN 143 has been published as EN 143:2000 incorporating Corrigenda Nos. 1 and 2 and Amendment 1 and the English language version of this standard was adopted for the test method.

### **Components of the systems:**

The major components of each system are a Headtop with a 3M specified breathing tube and a belt mounted air filter unit complete with 3M specified battery and filter(s). The Headtop consists of a replaceable fabric hood with an integral clear visor, an inner and outer shroud and a re-usable head suspension unit and air duct. The air duct incorporates a mechanism that allows the end user to adjust the airflow distribution.

The components of the systems are detailed in the appropriate 3M Reference Leaflet included in the relevant Technical File referenced on page 4. The 3M™ Jupiter™ system has the option of being configured as an Intrinsically Safe system, see details on page 3.

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Eye protection incorporated within the systems:

In addition to the respiratory protection provided by the systems eye and face protection is also provided.

Technical specifications: Harmonized European Standard EN 166:2001

EN 166 classifications: 2 - optical class.

Options: F - low energy impact.  
3 - liquid splash.

The product assessments for the eye protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

Additional independently Certified characteristics of the systems:

3M™ S-657 Headtop - 3M™ Jupiter™ system with Intrinsically Safe (I.S.) option.

The 3M™ Jupiter™ system incorporating 3M™ Jupiter™ Air Filter Unit part number 085-00-10P satisfies the following requirements:

Dust protection and protection against spraying water to EN 60529 code IP53.

When this Air Filter Unit is fitted with the Intrinsic Safety Kit part number 085-12-00P consisting of an I.S. Battery and I.S. Pouch and the AFU and Headtop are connected by a 3M specified breathing tube the system satisfies the following additional requirements:

Dust protection to EN 60529 code IP6X.

Intrinsically Safe to EN 50014, EN50020 and EN50281 (EEx ib IIB T3 and II 2 G D).

Intrinsically Safe assessments referenced in SIRA Product Conformity Certificate number SIRA Ex02Y2162X.

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### Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. To address this the applicable Technical File(s) will be updated with the appropriate information.

### Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the user information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

### Certificate Administration Details:

### Technical File References:

System component	Technical File
3M™ S-657	TF0134.
3M™ Breathing Tubes BT-20S/BT-20L	TF0137.
3M™ Dustmaster™ Air Filter Unit	RMG 0174/11/2000.
3M™ Jupiter™ Air Filter Unit	TF0045.

### Certificate Amendment Record and internal BSI report related to this Certificate:

Issue date	Comments	BSI Report No.
30 March 2009	First issue, models 3M™ S-657.	0086:7230602

### Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, PPE Article 11B, as referenced on BSI Certificate 67902.

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