

CENTRAL FANS COLASIT LTD

ATEX PLASTIC FANS
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BS EN 14986: 2017 Design of fans working in
potentially explosive atmospheres

Applicable From 01.02.2020

ATEX Standards

We supply / manufacture fans to meet the ATEX standards 2G & 3G (non-mining), 3G standard fans are all self-certified by Central Fans-Colasit Ltd.

All 2G standard fans are fully certified with a lodge file held by BASEEFA for a period of 10 years. End users must complete a fan application sheet (FETA) for risk assessment of standards employed.

BSEN 14986: 2007 has now been superseded by BS EN 14986 : 2017.

As of July 2003, it has been a mandatory legal requirement that organisations within the EU must follow the directives to protect employees from explosion risk in areas with an explosive atmosphere.

ATEX derives its name from the French title of the 94/9/EC directive (now superseded by 2014/34/EU): *Appareils destinés à être utilisés en Atmosphères Explosibles*. Put simply, ATEX stands for ATmosphere EXplosibles – or explosive atmospheres.

From January 1st, 2020 the new BS EN 14986: 2017 will apply to all ATEX rated Fans. All Central Fans - Colasit's ATEX Cat 2 & Cat 3 rated fans will comply to this standard. Our manufacturing personal will carry approved certification to carry out work to this standard.

Key Features of an ATEX Fan

Fan units must be designed and manufactured in accordance with BS EN 14986: 2017, design of fans working in potentially explosive atmospheres. This is a specific standard that sets out requirements for design, manufacture, testing and labelling of fans for use in potentially hazardous areas, often referred to as ATEX centrifugal fans.

In order to meet the new BS EN 14986 : 2017 all our ATEX fans have been designed, tested and certified to the new standard. Part of this standard means:

- Clearances between rotating elements and fan casing must be set
- Rigid impeller construction with over-speed capacity
- Spark minimisation using correct material pairing
- Dedicated fan ATEX nameplate with correct information and markings

CENTRAL FANS – COLASIT LTD ATEX FANS

All ATEX certified fans from Central Fans – Colasit Ltd will give you confidence that the fan supplied has been assessed by an approved notification body to be safe, manufactured to the strictest European standards, and designed to meet the specific type of explosive or hazardous environment that it is intended to operate in, whilst also reducing the need and cost of additional testing. Our Engineers have been fully trained and hold the required certification to not only build ATEX fans but also attend site to undertake work on these units.

- OEM and end users are responsible for ensuring compliance to the ATEX directive
- Failure to comply could carry heavy fines and custodial sentences
- Authorities can force a recall or replacement of any non-compliant equipment
- ATEX is a safety standard, and non-compliant equipment has the potential to cause death or serious injury
- Our ATEX Fan cases & Impellers are all manufactured from Fire Retardant Anti-Static electrically conductive material.
- All our ATEX fans are supplied with dedicated compliant ATEX documentation regarding operation, installation and maintenance
- All our ATEX fans are supplied with dedicated compliant fan ATEX nameplate

CENTRAL FANS – COMPLIANCE REFERENCES

- EN ISO 80079-36 Maximum Surface Temperature
- Testing to EN ISO 80079-36 for Mechanical Strength
- Impellers are run tested to a minimum of 1.15 times maximum operational rotating speed for at least 60 seconds without causing an ignition risk
- We comply with Table 1 Item 12 on Risk 'Permissible Material Pairings for Gas Explosion Groups 11A, 11B and Dust' + Note D – page 18
- We comply with Table 2 Item 5 'Permissible Material Pairings for gas mixtures containing Hydrogen for Category 2G' + Item 5 & Item 8
- We comply to ISO 14694 on Vibration
- Earthing Elements do not apply, all our ATEX fans are manufactured from Fire Retardant Anti-Static electrically conductive material – PPS-EL
- Our ATEX fans comply with EN ISO 11925-2 Fire Resistance

Note! External loads are not permitted on our fans. Ductwork and control items must be independently supported.

FETA sheet completion will be mandatory defining the fan use.

CENTRAL FANS – COLASIT LTD was established in 1987 and over the last 30 plus years has become and remains the UK's largest specialist designer and manufacturer of Plastic Corrosion Resistant Fans.

We have worked alongside our trading partners Colasit AG of Switzerland for over 3 years to ensure all our ATEX fan units meet the new BS EN 14986: 2017 legislation. All our ATEX fans have been designed, tested and certified to this new legislation.

We have a specialist team of Technical sales and ATEX Engineers who can deal with all your requirements. We offer a Fan Selection Program to help you in selecting our fans, CAD Drawings (both 2D & 3D), Noise Data, Operating & Maintenance Manuals, Consultancy Service with our technical staff having over 40 years' experience in this field.

