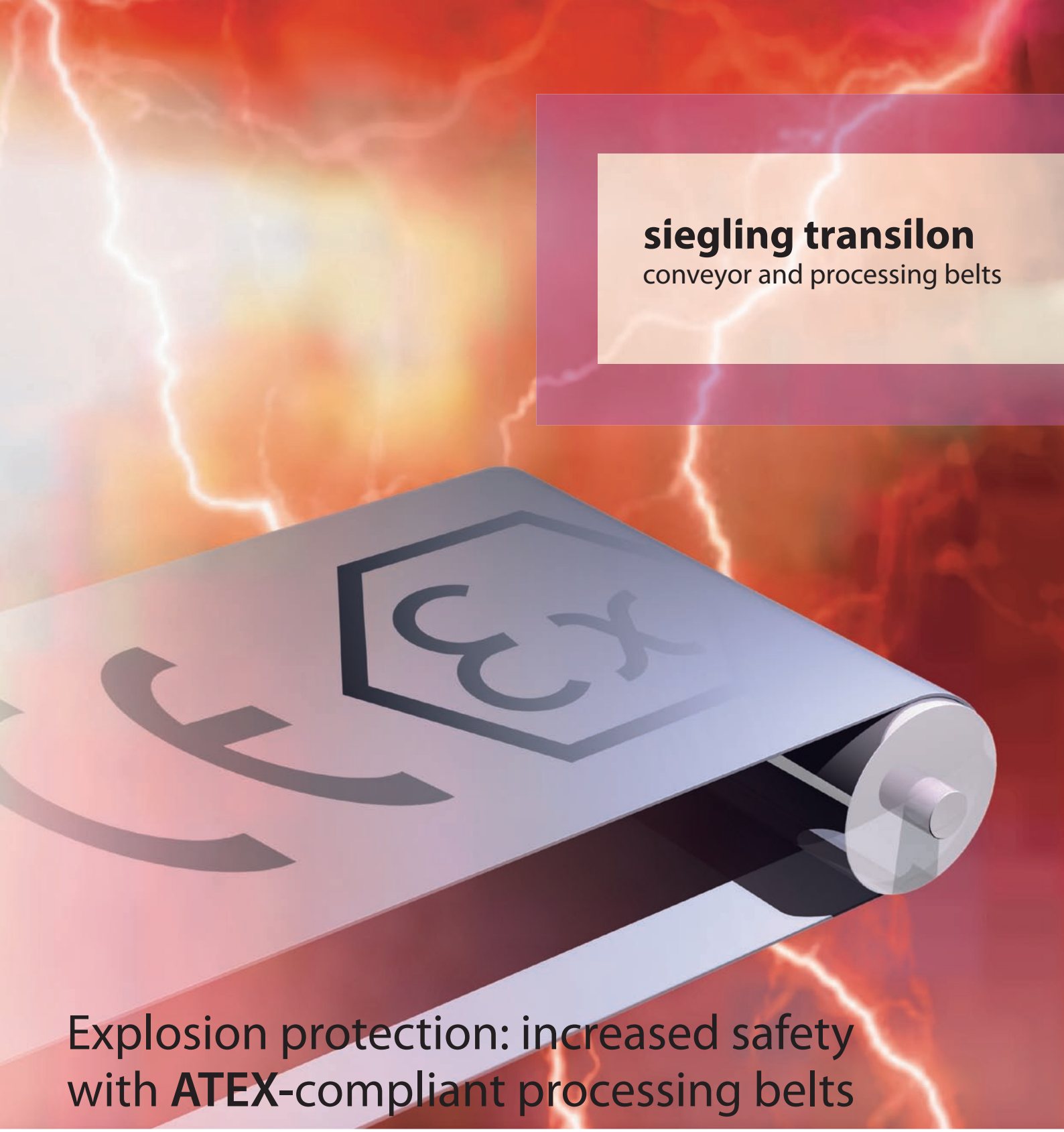
siegling transilon
conveyor and processing belts

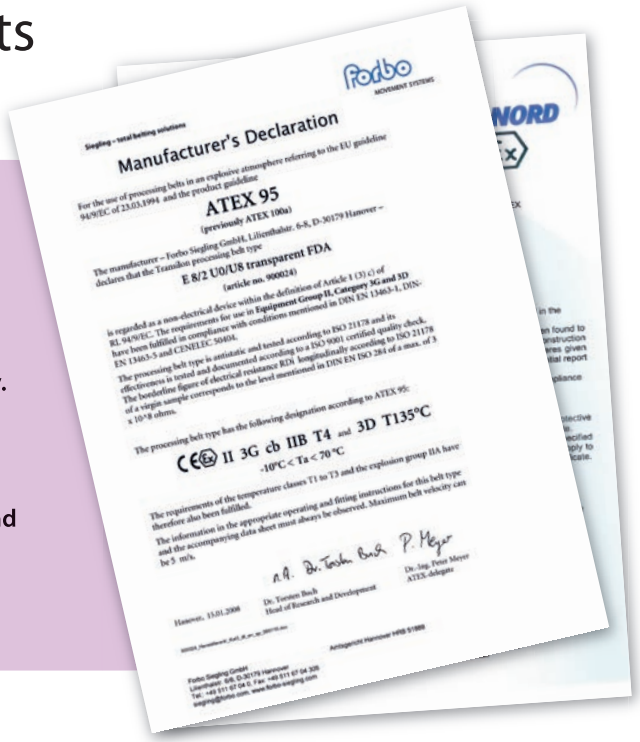


Explosion protection: increased safety with **ATEX**-compliant processing belts

Siegling – total belting solutions

forbo
MOVEMENT SYSTEMS

Explosion protection: increased safety with ATEX-compliant processing belts



Since July 1, 2003 the guideline 94/9EC on avoiding ignition risks in an explosive atmosphere, commonly known in the business as "ATEX-guideline 95", became binding.

Processing belts used in conveyors can also present a risk of ignition from static electricity or heat due to friction if not operated properly. Two partners shoulder the responsibility for seeing this is done: the belt supplier and the equipment manufacturer.

Forbo Siegling as a belt supplier is facing up to its responsibilities and if required will supply processing belts authorised for use in an atmosphere with explosive risk.

The belts' suitability is stated in manufacturer declarations on ATEX and declarations of compliance drawn up in conjunction with the official body (in Germany the TÜV – or Technical Monitoring Body).

Amongst other things detailed operating instructions with information on the ATEX-compliant conveyor must be included with the declaration of compliance.

As we update our ATEX product range constantly, please ask your Forbo Siegling contact person about the types currently available.

We can of course provide individual and professional support on current and future ATEX issues to our customers.

ATEX-directive 95 is compulsory for manufacturers of new machinery and since January 2006 operators of machinery have had to comply with ATEX-directive 137. As part of the health and safety ordinance, it regulates the operation of machinery in explosive areas. This also affects old machinery which if required will have to be modified to comply with the new regulations.

So the new ATEX directive also applies when processing belts are supplied for and used on old machinery.

Explanatory notes on the ATEX-category and comparison with the "old" Ex-Zones:

ATEX-category	corresponds to Ex-Zone	Meaning	Power transmission/ conveyor belts permitted?
1 G (G = gas)	Ex-Zone 0	Explosive gases occur constantly or long-term	Power transmission belts no, Conveyor belts yes: v <0.5 m/s
1 D (D = dust)	Ex-Zone 20	Explosive dusts occur constantly or long-term	Power transmission belts no, Conveyor belts yes: v <0.5 m/s
2 G	Ex-Zone 1	Explosive gases occur frequently	yes, exept for Ex-group IIC
2 D	Ex-Zone 21	Explosive dusts occur frequently	yes
3 G	Ex-Zone 2	Explosive gases occur infrequently and short-term	yes
3 D	Ex-Zone 22	Explosive dusts occur infrequently and short-term	yes

Ref. no. 112-2
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Forbo Siegling GmbH
Lilienthalstrasse 6/8, D-30179 Hannover
Phone +49 511 6704 0, Fax +49 511 6704 305
www.forbo-siegling.com, siegling@forbo.com

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