Poland: Ex safety since 90 years

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GIG – KD „BARBARA”

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Central Mining Institute (GIG)

Science

Education

Testing

Safety

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Ex activity in Poland

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Experimental Mine „BARBARA” the oldest part of Central Mining Institute
Experimental Mine „BARBARA”

- Ex safety since 1925
- Formation of Polish Ex-standards (first Polish standard PN-E 17 dated 1929)
- Polish construction of passive trough barriers
- Testing laboratories - the main in Poland
- Certified laboratory according to ISO/IEC 17025 since 1995
- Notified Body (ATEX) no 1453 since 2004
- IECEx (ExCB oraz ExTL) since 2010

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Large scale testing – coal dust explosion
Dust explosion testing

The 5 m$^3$ explosion chamber

The 1 m$^3$ explosion chambers

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Flame arrester testing

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Explosives testing

Experimental Gallery

Bunker for explosives testing

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Ex department
SCOPES + training and science activity

Ex Department KD „BARBARA”

ATEX Directive

International Certification

Independent assessment

Laboratory Testing
Possibility of testing in full scope of Ex safety

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Testing in the years of ‘30:

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Testing in the years of ‘50:

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Testing

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Low temperature testing
Low temperature testing
KDBEx Mechanical dimension checking

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Electrostatic hazard

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IP testing

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Mechanical Ex-safety:

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Accidents investigations:

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Accidents investigations:
Accidents investigations
Personnel

- Independent
- Impartiality
- Confidentiality
- Competency
- Experience
- Theoretical knowledge
- History and tradition

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Communication and transfer of knowledge

Ex department website
www.KDBEx.eu

Postgraduate academic studies

National conference

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Cooperation

- Polish Committee for Standardization
  Committees mirror:
  TC31 (IEC/CENELEC)
  TC305 (CEN)

- Ministry of Economy
  ATEX Standing Committee
  ATEX Working Group

- Office of Technical Inspection (IECEEx MB)

- State Mining Authority

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International cooperation

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Customs Union

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Standards

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### Standards - marking

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<tr>
<th>Ex d IIB T4</th>
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<td>PN-83/E-08110</td>
<td>PN-EN 50014</td>
<td>PN-EN 60079-0</td>
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Publications

International IECEx conference 22-23 April, Gdańsk POLAND
Publications - guides

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Industry - support

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Thank You for attention

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