Non-Sparking and Non-Magnetic Safety Tools

For Use in Hazardous Environments and ATEX and Ex Zones

CS Unitec offers a complete line of High-Quality Non-Sparking, Non-Magnetic and Corrosion-Resistant Safety Tools. CS Unitec is a leader in special Copper Alloy Safety Hand Tools manufactured for use in high-risk areas where a spark can create a disaster.

Copper-Beryllium Tools (CuBe2) fulfill the demand in the ATEX Directive 94/9/EC for work in Zones 0, 1 and 2 (Gas, Mists or Vapors); Zones 20, 21 and 22 (Dusts); and M1 and M2 for mining.

Aluminum-Bronze Tools (AlBr) fulfill the demand in the ATEX Directive 94/9/EC for work in Zones 1 and 2 (Gas, Mists or Vapors), plus Zones 21 and 22 (Dusts).

CS Unitec’s Aluminum Bronze (AlBr) and Copper Beryllium (CuBe2) tools are also BAM certified. They have met the requirements of BAM Standard operating procedure and are appropriate for use in potentially explosive atmospheres of Zones 0, 1, 2 and/or 20, 21, 22 according to Directive 1999/92/EC of all explosion groups according to IEC 60079-20-1:2010.

Zone Definitions

Gas, Mists or Vapors
- Zone 0 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is present frequently, continuously or for long periods.
- Zone 1 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is likely to occur in normal operation occasionally.
- Zone 2 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is not likely to occur in normal operation but, if it does occur, will persist for only a short period.

Dusts
- Zone 20 - An atmosphere where a cloud of combustible dust in the air is present frequently, continuously or for long periods.
- Zone 21 - An atmosphere where a cloud of combustible dust in the air is likely to occur in normal operation occasionally.
- Zone 22 - An atmosphere where a cloud of combustible dust in the air is not likely to occur in normal operation but, if it does occur, will persist for only a short period.

How to Choose the Correct Alloy for Your Application

<table>
<thead>
<tr>
<th>Zone Compatibility</th>
<th>Aluminum-Bronze (AlBr) Alloy</th>
<th>Copper-Beryllium (CuBe2) Alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness</td>
<td>27 HRC</td>
<td>38 HRC</td>
</tr>
<tr>
<td>Durability</td>
<td>Not as durable as CuBe2.</td>
<td>Very durable due to high hardness and tensile strength,</td>
</tr>
<tr>
<td>Magnetic Properties</td>
<td>Low magnetism due to minimal ferrous components.</td>
<td>Non-ferrous components; safer for applications demanding non-magnetic properties.</td>
</tr>
<tr>
<td>Composition</td>
<td>Al: 10.3% Fe: 4.5% Ni: 4.5% Cu: Balance</td>
<td>Be: 1.9% Other: 0.5% Co: Ni: 0.4% C: Balance</td>
</tr>
</tbody>
</table>

MSDS (Safety Data Sheet) is available upon request.

WARNING: Safety tools should not be used in contact with Acetylene.

WARNING: Safety tools must only be ground or resharpened by companies approved for grinding such material, according to OSHA regulations.

CAUTION: User must follow all appropriate safety regulations when choosing a tool for their particular working environment.

Email: info@csunitec.com • Phone: 203-853-9522

1-800-700-5919 www.csunitec.com