Kumwell's (Kumweld) exothermic welding withstands 5 times mechanical force against clamp connection.

Safety
• Non toxic and heavy metal
• Non self-ignite
• Ignition temperature at least 400 °C
• Smooth reaction

Mould
• Earnest design: cavity, flow path
• High quality raw material
• Accurate tolerance
• Duration: at least 50 times in normal usage

Exothermic Welding

Kumwell
THAILAND
PRODUCT OVERVIEW

LIGHTNING PROTECTION • GROUNDING • EXOTHERMIC WELDING • SURGE PROTECTIVE DEVICE
Surge Protective Device (SPD)

Surges or transients are an over-voltage spikes or disturbances on a power wave that can damage, degrade or destroy electronic equipment in industrial, commercial building and manufacturing facilities.

**Two Types of Over-Voltages**
- Transient over-voltage (switching operation direct and indirect atmosphere discharge)
- Temporary over-voltage (TOV)

Kumwell SPD’s products are designed, researched and developed according to International Standard (IEC 61643) and VDE certification from Germany.
Lightning Protection

Kumwell Lightning Protection products are in accordance to international standards:

- IEC 62305 - Protection against lightning
- BS 6651 - Code of practice for protection of structures against lightning
- NFPA 780 - Standard for the installation of Lightning Protection System
- UL 96 - Lightning protection components

Bare Copper Wire System

- Air Terminal
- Round Saddle
- Double Base Saddle
- Adjustable Saddle
- Tape Saddle
- Adjustable Saddle

Also Available Copper Tape System

- Cable Support
- One Hole Cable Grip
- Cable Cross Clamp
- Beam Clamp
- Cable Test Connector
- Copper Tape Support

Grounding

The proper selection of grounding system has significant implications for the safety and protection of building structure, a functional ground system serves a purpose other than protecting people and property against electrical shock but also carry current during the normal operation of a device such as surge suppression and electromagnetic compatibility setback.

- Long life
- High resistance to corrosion
- Low resistance path to ground
- Ability to carry high currents
- Cost effective

Copper Bond Ground Rod

Application: For dispersing current to the ground. Length may be extended using coupling.

Material: Copper-bonded ground rod is made by molecularly bonding pure electrolytic copper into a low carbon, high tensile steel core with exceeding 0.254 mm (254 micron) thick. To ensure safety and quality, it meets UL standard for grounding and bonding.

Galvanized Steel Ground Rod

Application: For dispersing current to the ground.

Material: Hot-dipped galvanized steel in accordance with ASTM A153 standard. Kumwell zinc coating is 30% more than that specified in ASTM A153.
Exothermic Welding

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Safety
- Non toxic and heavy metal
- Non self-ignite
- Ignition temperature at least 400 °C
- Smooth reaction

Welding Metal
- Non toxic and heavy metal
- Steady burn without pop and fire out
- No slag and porosity
- Consistency of color
- High conductivity with at least 93% Cu and less than 2% Fe

Mould
- Earnest design: cavity, flow path
- High quality raw material
- Accurate tolerance
- Duration: at least 50 times in normal usage