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Inquiry:

Kupferberatung Technology Labor CTL

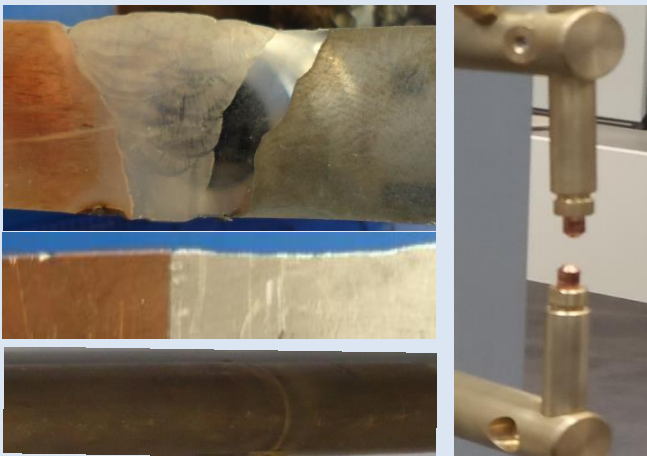
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Welding, Brezing/Soldering from copper materials today In-house Seminar in your company / institutes

The selection of the right materials, joining methods, the reliability of the welded joint / brazed joint of copper materials, joining from copper and aluminum, copper and steel for different applications and correct test methods are our seminar topics. With this one-day training seminar, we present you the years of experience annually on site and very inexpensive. You save travel time and costs. We will inform you about current standards, regulations, standard-compliant and proven application, research results, economical /alternative joining methods and about the systematic prevention of defects.



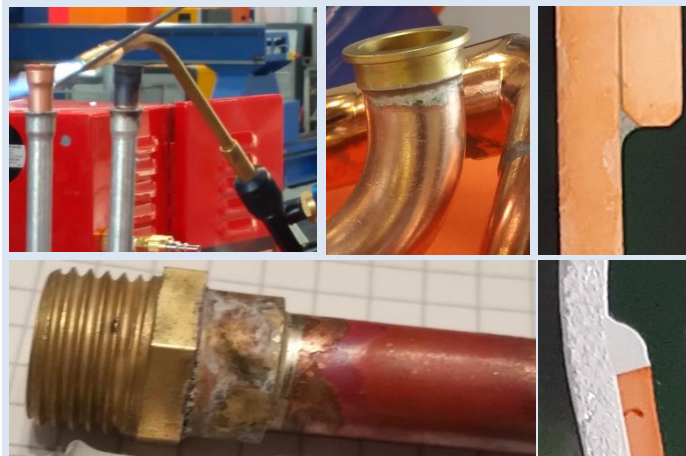
Recommended for:

Welding specialists, welding engineers, welders, masters, technicians, engineers, material testers, quality engineers, manufacturers of electrical equipment and transformers, welders, soldering companies, welding inspection / soldering test centers, welding consumables manufacturers, welding equipment and all companies that process copper materials.

Seminar fees and services:

The seminar program will be create to your inquiry, product, process and applications.

Additionally we can support you by processing, sample inspection, quality assurance and manufacturing processes. As required, we create / update work instructions, test instructions, WPS, delivery specifications according to current national and international standards and create / update data sheets and brochures for your products in German and English.



Remarks:

The number of visitors to the seminar will be determined by you.

Inquiry :

We look forward to your inquiry at:

info@kupferberatung-technology-labor.de

9:15 – 9:30	Intruduction
9:30 – 10:30	Copper and Copper alloys to EN Properties, standadrs DIN, EN, ISO, UNS, JIS Electrotechnic and other applications
10:45 – 11:15	Soldering from copper materials Basic, standards, selecting from soft solder alloys and fluxes, Applications
11:15 – 12:00	Brazing from copper materials Basic, standrdas, data-sheets, selecting from filler metals and fluxes, Applications
12:00 – 12:45	TIG-Welding and MIG-Welding from copper materials Basic, standards, filler metals, fluxes, Prevention of defects
13: 00 – 13:45	Lunch break
13:45 – 14:15	Laser welding and electron beam welding from copper materials Processes, standards, green laser
14:15 – 15:00	Resistance welding, ultrasonic welding and other pressure welding processes Materials, coatings, electrodes, standards and data sheets
15:15 – 15:45	Welding from disimilar materials Joining from copper with aluminium and copper with steel
15:45 – 16:30	Introduction of copper-based filler metals for arc brazing and surfacing of steel materials Processes, standards and data sheets
16:30 –	Final discussion

We consult you with our many years of industry experience by copper materials, several hundreds of material examinations, sample tests, damage analyses, the optimization of welded and brazed products, cooperation with standard organisations by updating of standards (DIN, EN, ISO), cooperation by research projects in cooperation with DVS and research institutes.

Our seminar activities (welding, /Brazing/Soldering and other manufacturing processes of copper materials) have proven themselves in welding institutes and copper industry. We consult and support a variety of copper user companies, service providers and offer you consulting by selection and processing of copper materials. For your specific processing/topics, or questions about our in-house-seminars contact us please directly at:

info@kupferberatung-technology-labor.de.

Best Regards
Parsi

Dr. –Ing. Parsi,
Material Technology, *International Welding Engineer SFI/IWE,*
DGQ-Quality management and Environmental representative/Auditor

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