



www.kupferberatung-technology-labor.de

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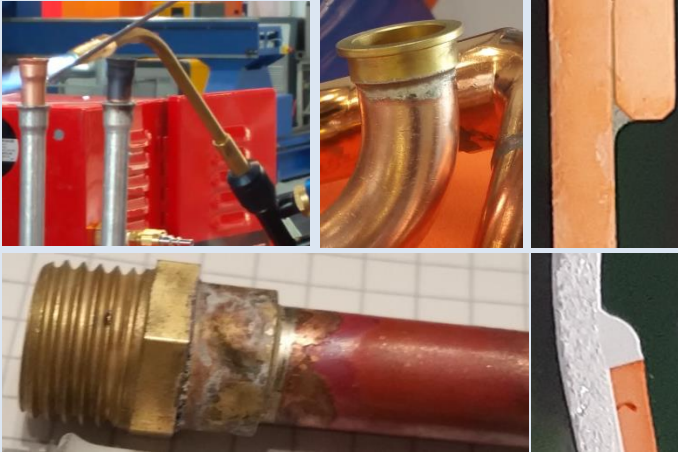
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Brazing and Soldering from copper materials today

In-house Seminar in your company / institutes

The selection of the right materials, joining methods, the reliability of the soldered joint / brazed joint of copper materials, joining from copper and aluminum, copper and steel for different applications and the test methods are our seminar topics. With this one-day training seminar, we present you our long years of experience in your company/institut. You save travel time and costs.

We will inform you about current standards, regulations, applications, research results, economical /alternative joining methods and about the systematic prevention of defects.



Recommended for:

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

Seminar- content and services:

The seminar program (see please next page) will be planned 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, 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, standards DIN, EN, ISO, UNS, JIS Electrical Applications and other applications
10:45 – 11:30	Brazing and Soldering basic <i>Process, training, brazer qualfication</i>
11:30 – 12:15	Brazeability from copper materials <i>Selection of filler metal and fluxes for brazing, Applications, metallurgie, corrosion resistance</i>
12:15 – 12:45	Soldering from copper materials <i>Standards, applications, lead free soft solder alloys</i>
12:45 – 13:30	Lunch break
13:30 – 14:30	Brazing from copper materials for electrical applications, air conditioning/refrigeration, gas and sanitary applications <i>Processes, standards, filler metals and fluxes</i>
14:45 – 15:15	Introduction to resistance brazing and laser brazing of copper materials Electrical Applications
15:15 – 15:45	Brazeability of disimilar materials Copper with aluminum and copper with steel
16:00 – 16:30	Short introduction on copper-based filler metals for arc brazing of steel materials Process, 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,
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DGQ-Quality management and Environmental representative/Auditor

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