



## Welcome to Umicore!

### In this newsletter we focus on BrazeTec brazing alloys and fluxes plus Umicore's role in the recycling of precious metals

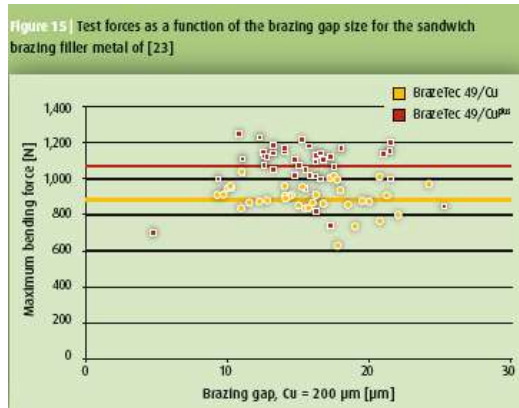
For those of you that don't know, brazing is a metal joining process where metals are joined together by melting and flowing a filler metal into the joint. Brazing differs to welding because it doesn't melt the pieces being joined and differs to soldering as it uses higher temperatures. The filler metal used for brazing the joint has a lower melting point than the adjoining metals and flows into the joint by a capillary action. The filler metal is brought slightly above its melting point and a suitable atmosphere or flux is used to protect it. The filler flows over the base metal, known as wetting, and is then cooled to join the pieces together. The big advantage of brazing is that the joint has considerable strength.

### Applications and Industries

BrazeTec continues to innovate and can adjust products to suit specific needs. Get in touch by phone on **01992 551939** or mail [sales.hertford@umicore.com](mailto:sales.hertford@umicore.com) if you want to discuss a particular application.



**Tool Making Industry** - This photo shows a circular saw blade for sawing wood. The hard metals, consisting of tungsten carbide with 5 to 13% cobalt, are brazed onto the steel. BrazeTec's latest innovation for the tool making industry is a high strength brazing alloy, 49/Cu<sup>plus</sup>. Designed with an interlayer of a specifically developed copper quality this product allows for significant increases in shear strength of 20% or more. Let us know if you want more detail - email at [sales.hertford@umicore.com](mailto:sales.hertford@umicore.com) or call **01992 551939**.



For brazing using **induction heating**, several types of brazing alloys can be recommended including the low melting point silver brazing alloys [BrazeTec 4900](#) and [BrazeTec 4900A](#) or the low melting point tri-metal brazing alloy [BrazeTec 49/Cu](#) with an intermediate copper layer for stress reduction.

We can recommend alloys for all types of brazing applications including **Refrigeration and Air Conditioning, Transportation, Electrical and Machine Engineering**



Our latest brochure is available to download or contact us to send you a pdf by email

Look out for our rebranded packing too!



BrazeTec has a long history starting with a silver mine back in the 1600's. Over the next 400 years they used their knowledge to develop brazing products under the name Degussa Löttechnik and then BrazeTec. Now with over 100 years experience BrazeTec, manufactured by Saxonía, is a leading provider of high-quality brazing alloys and solders, brazing pastes and fluxing agents. Umicore's history with BrazeTec started back in 2003 and it's a relationship that we're proud of.

### Umicore operates one of the world's largest precious metals recycling facilities

Do you want to see how we do it? Grab a cuppa and watch this 8 minute video



If you've got some precious metal scrap lying around and you want to recycle it, get in touch by

phone on **0121 554 3985** or by mail at [sales.birmingham@umicore.com](mailto:sales.birmingham@umicore.com)

## Did you know we can deliver most products next day to UK mainland from our UK warehouse?

We stock loads of BrazeTec products including:

- Silver brazing alloys such as: 5507/4076/4900 Rods 1.0mm - 4.0mm
- Tri-Foil: 49/Cu in many sizes
- AgCuPhos Alloys such as:  
S2/S5/S15 Rods 1.5mm - 3.0mm
- Fluxes including  
H Paste (FH10)  
Special H Paste (FH12)  
D21 Powder (FH10)  
H80 Paste (FH10)

We can help with your choices of alloys and fluxes.

## And we stock a wide range of Jewellery and Technical Ceramics!!



### BrazeTec Brazeing Centre

Have you heard about the BrazeTec brazeing centre in Hanau, Germany? This unique centre has been maintained for over 60 years and is available for first class technical advice and project work, and for the development of new, superior metal and chemical products.

Through our brazeing centre, we are able to assist you with regard to the optimum product selection for your brazeing process and make recommendations for suitable brazeing techniques.

We have a wide range of brazeing equipment which allows us to carry out trials on your prototype and production parts in order to optimise your process.



### Life beyond Brexit?

We're managing our supply chains, keeping disruptions to a minimum, maintaining good stock levels. For all your technical ceramics and BrazeTec products get in touch with us at

[sales.hertford@umicore.com](mailto:sales.hertford@umicore.com). For all your precious metals it's [sales.birmingham@umicore.com](mailto:sales.birmingham@umicore.com)

### Have you seen our website recently?

We've had a bit of a revamp so have a look and let us know what other products you need. We'll do our very best to source high quality complementary products.

[umicore.co.uk](http://umicore.co.uk)

Please note that we do not share your details with 3rd parties.

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