



Proudly presenting itself:

The NOCOLOK[®] Team

In the future this column will present hot-lines in Hannover and also of our representative organizations who deal with NOCOLOK[®] Flux products. Many of you have already had contact with them by fax, e-mail etc. but don't know the faces related to the names. This is what we would like to change from now on.

So let's start with the Team in Hannover, where the Strategic Business Unit Fluor, including Marketing, Distribution, Customer Service, is located:

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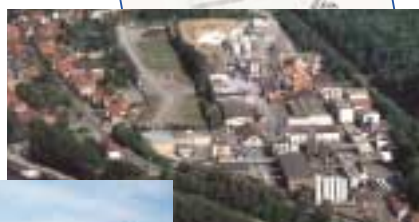
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Any changes in our staff will be published in future editions of NOCOLOK[®] News.

Do not hesitate to contact us – personally, by phone, by e-mail... The Team in Hannover, a corporate center of competence, supports our agents worldwide, together with our technical experts.



Bad Wimpfen, Germany



Catoosa/Oklahoma, U.S.

Status of QS 9000 Audit

From July 3 – 8, 2001 DQS (Gesellschaft für Qualitätssicherung – German Quality Assurance Agency) executed a revolving quality audit at our Hannover and Bad Wimpfen sites.

Our passing of the examination is documented by a new QS 9000 Certificate, valid up to end of 2003.

Our site in Catoosa/Oklahoma, U.S. is QMI QS 9000 registered and runs continuously with no expiration date.

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Why NOCOLOK[®] News?

The NOCOLOK[®] Team

Status of QS 9000 Audit

VTMS 5 – Retrospective

Now Solvay's Property

NOCOLOK[®] Events

NOCOLOK[®] Cs Flux

Why NOCOLOK[®] News?

Dear Reader,

The NOCOLOK[®] Team sincerely invites you to peruse the first edition of NOCOLOK[®] News.

After nearly 21 years of NOCOLOK[®], and at the special request of many of our clients, we decided to publish the latest news on this product and process once every quarter.

This flyer will mainly be e-mailed to those interested and can also be found on our website. Our intention is to provide a worldwide up date interested brazing companies to highlight for novelties relating NOCOLOK[®] technology, i.e. latest developments in the market and within Solvay.

In every issue, we will showcase our representatives all over the world, give technical application support concerning frequently discussed topics and inform about brazing exhibitions, conferences etc. as well as general infos. All in all we want to keep you updated. NOCOLOK[®] News is intended to attract our readers' interest. We will be pleased to give further details upon request.

Now let's stop the explanations... we hope you enjoy reading NOCOLOK[®] News!

Yours,

Werner Schmitt

Manager Marketing & Sales
NOCOLOK[®] Flux Product Range

VTMS 5 – Retrospective

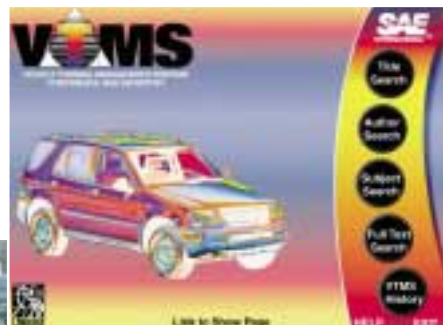
Once again this conference plus exhibition was a genuine highlight for automotive heat exchanger specialists and now even ranks ahead of the SAE Show, Detroit.

In 2001, 569 participants were listed. In comparison to the last such event in the U.S. (Indianapolis, 1997), this represents an increase of 15 %. As usual, VTMS 5 was very international, with respect to both visitors and exhibitors. During the conference seven presentations on the brazing process were made, focussing on optimization of materials used. Various application specials were also showcased, e.g. Cs fluxing for special Al alloys, application of new corro-

sion resistant alloys and a concept for waste water elimination during the fluxing process.

Abstracts of these are available via the SAE Organisation.

The positive acceptance of the event after four days justifies hopes for a similar success during VTMS 6 in Brighton UK, May 2003.



Abstracts of the presentations are available via the SAE Organisation



Solvay presented at VTMS 5 on a new stand

NOCOLOK® NEWS

presents information for NOCOLOK® users.

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NOCOLOK® – the trademark –

Now Solvay's Property

Effective January 1, 2001 the Solvay Group acquired the worldwide trademark rights of the NOCOLOK® Flux product from Alcan Canada.

This is a clear demonstration of our total commitment to this product line and our trust in a continuously positive development in the heat exchanger market as well as other upcoming application fields with respect to brazing technology.

Meet us

NOCOLOK® Events

■ The Olympics of Welding Technology

The 15th world trade fair welding cutting surfacing
Essen/Germany
Sept. 12 – 18, 2001
Hall 9.0/booth 9-41

■ EABS/Solvay Brazing Seminar

Hannover/Germany
Sept. 26/27, 2001

■ IKK Refrigerants Exhibition

Hannover/Germany
Oct. 10 – 12, 2001

■ HVAC Seminar

Dallas/USA
Oct. 23, 2001

■ Therm Alliance Seminar

Las Vegas/USA
Oct. 25/26, 2001

Presenting:

NOCOLOK® Cs Flux

Since early 2001 this product is the latest member of our NOCOLOK® family.

This special mixture is intended for brazing Al alloys with a higher Mg content. By adding Mg to the alloy (types 6000 or 3000) higher material- and pressure resistance as well as better machine processing is now given, compared with NOCOLOK® standard Flux which could tolerate only low Mg contents.

During brazing, Mg diffuses to the Al surface and joins the flux. These chemical compositions have a higher melting point than the filler metal, so removal of the oxides by the flux is inhibited.

In this situation Cs can function as a buffer while the original potassium-based flux remains unchanged in its composition. So alloys with a Mg content of up to 0.8 % can be brazed in a CAB furnace.

While flame brazing, the brazeability rate is even higher (1.5 % Mg) due to quicker heating.

The synthetic mixture of only 2 % Cs represents an optimized ratio with respect to efficiency and profitability whereas the physical characteristics of NOCOLOK® standard grade such as melting point and granulometry remain nearly unchanged. The following benefits are also very interesting:

- Lower leakage rates and less porosity in production
- Better finish of the brazed work piece after brazing
- No change with respect to standard flux loading
- No change in brazing cycle.

The market trends are clearly obvious. Enormous global cost pressure requires reduction in costs for basic Al material (decrease in wall thickness) and lowering of production costs. NOCOLOK® Cs can help in this and make headers of heat exchangers or fittings more easily brazeable.

Solvay
Fluor und Derivate

