



Aluminium-Zentrale e.V.

Aluminium-Verlag

Marketing & Kommunikation GmbH

Am Bonnehof 5, D-40474 Düsseldorf
Postfach 10 12 62, D-40003 Düsseldorf
Telefon 02 11 / 47 96 - 285
Telefax 02 11 / 47 96 - 410
www.alu-verlag.com

1. International Congress

Aluminium Brazing

10th – 12th May 2000

**hotel nikko Düsseldorf
Immermannstrasse 41
40210 Düsseldorf**

Summary of contents

Wednesdy May 10th, 2000

Session A

Materials, semi finished products, alloy developments

- 12.30 – 13.15 **Development of roll-clad sheet for automotive brazing applications**
A. Gray, Alcan International Limited, Banbury, UK
- 13.15 – 14.00 **Extruded profiles for manufacture of heat exchangers (MICROPORTS)**
N.W. Sucke, ERBSLÖH AG, Velbert, FRG
- 14.00 – 14.45 **Development of higher strength core alloys – potentials and limits**
Dr. K. Vieregge, Corus Aluminium Walzprodukte GmbH, Koblenz, FRG
- 15.15 – 16.00 **Brazing alloys for aluminium brazing: flux-cored brazing rings**
J.-C. Lepine, Protechno-Richard S.A., Riberac, France

Session B

Furnaces and thermal aspects

- 16.00 – 16.45 **De-greasing and furnace brazing of aluminium components**
a) Thermal de-greasing
b) CAB brazing plant in continous and batch cycle operation
D. Kirch, ELINO Industrie-Ofenbau Carl Hanf GmbH + Co., Düren, FRG
- 16.45 – 17.30 **Flame brazing aluminium – how to “Audit” process application**
D.R. Davies, BFT Burner & Flame Technology Ltd., Stalybridge, UK

Thursday May 11th, 2000

Session C

Fluxes and handling techniques

9.00 – 9.45

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The NOCOLOK® brazing technology. Use of the process and practical experience

Dr. H.-W. Swidersky, Solvay Fluor und Derivate GmbH, Hannover, FRG

9.45 – 10.30

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New developments in non-corrosive fluxes for innovative brazing

Dr. U. Seseke-Koyro, Solvay Fluor und Derivate GmbH, Hannover, FRG

11.00 – 11.45

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Application techniques and handling of aqueous aluminium brazing fluxes

M. Thompsett, Surface Engineering Process Equipment Ltd., Wincanton, UK

11.45 – 12.30

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Application techniques and handling of NOCOLOK® fluxes: electrostatic application

Dr. C. Drummond, Nordson Corporation, Amherst, USA

Session D

Quality assurance and calculations

14.00 – 14.45

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Quality control of brazed joints in large scale production: leak tests of brazed aluminium evaporators, condensers and radiators

E.P. Garner, Vacuum Engineering Services Ltd., Manchester, UK

14.45 – 15.30

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Strength of brazed aluminium joints subjected to corrosion and vibrational loading

Professor Dr.-Ing. B. Wielage, Technische Universität Chemnitz, FRG

Friday May 12th, 2000

Session E
Applications

9.00 – 9.45

Experience with brazed radiators in full-scale production, especially models requiring internal brazing

R. Evans, Calsonic Llanelli Radiator Limited, Llanelli, UK

9.45 – 10.30

Manufacturing and application of industrial coolers for ships, rail vehicles and aircraft

U. Basler, Behr Industrietechnik GmbH & Co., Stuttgart, FRG

11.00 – 11.45

Brazed heat exchangers in refrigerators

D. Bitter, KME Schmöle GmbH, Menden, FRG

11.45 – 12.30

Low temperature brazing of aluminium based materials with the BrasAl® process

Jérémie Bouchaud, CEA - DTA Deutsche Vertretung, München/FRG

Session F
Innovation and trends

14.00 – 14.45

Prospects for possible new applications for brazing: foamed aluminium

Dr. R. Laag/M. Plew, Alulight Deutschland GmbH, Aalen, FRG
W. Rajner, Alulight International GmbH, Ranshofen/Austria

14.45 – 15.30

Laser brazing: a joining technology offering benefits to aluminium-base materials

Professor J. Takács, Technical University of Budapest, Hungaria