



Newsletter for members of GSB International

Issue 04 / 2017

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## 1 From the work of the Aluminium Quality Committee

- **Mechanical equivalent of heat method**

GSB approves the use of the mechanical equivalent of heat method as an alternative way of determining the cure process by means of temperature recording as a test criterion in accordance with GSB AL 631 & ST 663 Part V Point 5.9.4.2. The coating company must notify the GSB office in advance of their use of this method and must find out the relevant key values for this method from their coating material manufacturers.

- **Impact of the curing conditions**

As part of a series of tests carried out in conjunction with Schüco International KG, TK Oberfläche GmbH and Koenigsdorf Oberflächentechnik GmbH, who were testing the effects of extending the cure window on the mechanical properties of the metal EN AW-6060/6063, no significant changes in tensile strength or yield strength were found in a random check of the material.

- **Personnel changes**

Mr Ruhland, formerly from NABU Oberflächentechnik GmbH, and Mr Valgardsson, formerly from Dan-Color, have left the Aluminium Quality Committee. We would like to thank them both for their many years of work for this committee and wish them all the best in their future careers. The Aluminium Quality Committee has appointed Mr Schöll from NABU Oberflächentechnik GmbH and Dr Praastrup from Dan-Color as successors for the remaining term of this election period.

## 2 From the work of the Steel Quality Committee

- **Meeting of the Steel Quality Committee**

The Steel Quality Committee met for the first time this year on 16 March. The host was the company Hans Gassler AG in Gretzenbach, Switzerland. We would like to take this opportunity to thank Miriam Ragaz-Gassler and Simon Gassler for their hospitality at their company.



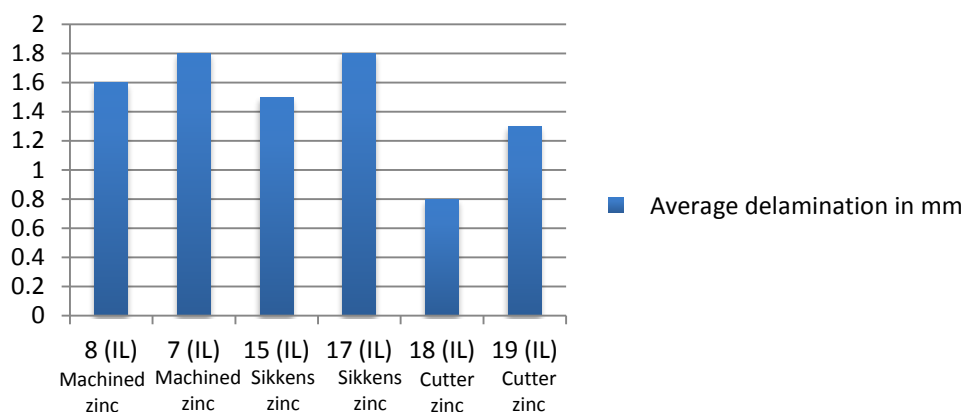
- Current revision of DIN 12944-6**

Analysis of corrosion behaviour in relation to artificially produced scratches.

The widely recognised and applied standard DIN EN ISO 12944 consists of several parts. The series of standards is currently being revised. Part 6, which is used in a wide range of areas for certifying corrosion protection systems, is also being adapted. The standardisation industry has announced that the scratch, which was previously made using a scratching tool, should be 2 mm wide and machined in future. Furthermore, when working with galvanised substrates, the scratch should be made through the zinc layer down to the substrate.

GSB queried whether the corrosion behaviour changes significantly in galvanised steel substrates due to the different types of scratches. A series of practical tests carried out in cooperation with the IFO (Institut für Oberflächentechnik GmbH) revealed no significant differences in galvanised steel substrates. This has resulted in the decision to continue with the proven and easy method of making a scratch using the scratching tool in accordance with Sikkens.

### Average delamination in mm



- Personnel changes**

Mr Beljaars from the Weert Groep previously held the twin role of Chairman of the Steel Quality Committee and Chairman of the Board. He is now passing on his role as Chairman of the Steel Quality Committee to Mr Hermann from PowCos GmbH, who was unanimously appointed by the Board. In accordance with the Articles of Association, Mr Hermann therefore automatically becomes a Member of the Board as well. We would like to thank Mr Beljaars for his many years of service as Chairman of the Steel Quality Committee.

### 3 GSB training course in Stulln

On 7 March, a training course took place at NABU Oberflächentechnik GmbH in Stulln with a focus on surface treatment. During the first part of the course, the speakers gave the participants a theoretical insight into the following topics:

- GSB quality guidelines
- Properties and corrosion behaviour of aluminium
- Rest potential analysis (RPA)
- Chromium-free surface pre-treatment

This allowed the participants to acquire new knowledge and deepen their existing level of understanding. The second part involved practical tasks in groups. During this part, the participants went into the company's own laboratories to learn how to characterise and analyse chromium-free conversion layers. Following this, there was a written test to check what they had learnt, in which most of the participants achieved the pass mark "Very good". The Managing Director, Markus Schöll, ended the course with a guided tour of the company, in which all interested parties could participate.

We would like to thank NABU Oberflächentechnik GmbH and all of the speakers for their support with this training course.



## 4 Specialist symposium held by the OFI in cooperation with GSB International

On 20 March, a specialist symposium under the working title “Quality-assured coating of aluminium, steel and galvanised steel” was held in Wiener Neustadt by the OFI (Austrian Research Institute) and GSB International with almost 50 participants. The key topics of the event were:

- Quality regulations of GSB International
- Properties and corrosion behaviour of aluminium and aluminium alloys
- Chromium-free pre-treatment: Method-specific process requirements, conversion of an existing plant
- Rest potential analysis in theory and practice
- Powder coating of heavy/bulky components
- The new ÖNORM EN ISO 12944
- Damage to powder-coated components; recognising and avoiding the causes

We would like to thank the OFI, under the leadership of Dr Anton Grünberger, as well as all of the speakers for their valuable contributions, which helped to make this event a success.



Speakers at the specialist symposium: Dr Anton Grünberger, Werner Mader, Robert Vogt, Peter Palmanshofer, Patrick Knoll, Rainer Rogovits

## 5 GSB specialist symposiums & training courses

- **Surface pre-treatment**

Date: To be confirmed  
 Location: Düsseldorf  
 Participants: 20

- **Steel**

Date: 18 October 2017  
 Location: Schwäbisch Gmünd  
 Participants: 30

## 6 GSB dates

- **General Meeting**  
Date: 24/25 April 2017  
Location: Düsseldorf
- **Board – 2<sup>nd</sup> meeting**  
Date: 24 April 2017  
Location: Düsseldorf
- **Board – 3<sup>rd</sup> meeting**  
Date: 4/5 July 2017  
Location: Düsseldorf
- **Board – 4<sup>th</sup> meeting**  
Date: 29 November 2017  
Location: Düsseldorf
- **Aluminium Quality Committee – 2<sup>nd</sup> meeting**  
Date: 27/28 June 2017  
Location: Düsseldorf area
- **Aluminium Quality Committee – 3<sup>rd</sup> meeting**  
Date: 10/11 October 2017  
Location: Bielefeld
- **Steel Quality Committee – 2<sup>nd</sup> meeting**  
Date: 19 October 2017  
Location: Schwäbisch Gmünd

## 7 Exhibitions and conventions

- **Paint Expo 2018**  
Date: 17 – 20 April 2018  
Location: Karlsruhe
- **ALUMINIUM 2018 – World Trade Fair and Congress**  
Date: 9 – 11 October 2018  
Location: Düsseldorf

## Seminars

### **GDA seminars (www.aluinfo.de)**

- **Technology of Extruded Aluminium Profiles**  
Date: 12 September 2017  
Location: Lindner Hotel Airport, Düsseldorf
- **Aluminium and its alloys – an introduction for technicians and traders**  
Date: 26/27 October 2017  
Location: Fachschule für Wirtschaft und Technik, Clausthal-Zellerfeld
- **Surface treatment of aluminium**  
Date: 7/8 November 2017  
Location: Lindner Hotel Airport, Düsseldorf
- **GDA in-house seminars**  
Date: By arrangement  
Location: On location at customer site

## **8 List of experts**

The GSB office has a list of experts complete with all contact details, which you are welcome to request via [info@gsb-international.de](mailto:info@gsb-international.de) if interested.

## **9 Material and member lists**

The new website of GSB International has been online since the beginning of June 2013. The lists that used to be enclosed can be downloaded from the website. If there are changes, the lists are updated at the end of the month.

