

Polski Związek Pracodawców Przemysłu Aerozolowego Polish Union Of Employers Of Aerosol Industry



XVIII KONFERENCJA AEROZOLOWA 17-18.10.2019





AGENDA SPOTKANIA

17.X

13:00-14:30	Rejestracja uczestników i lunch.	16:45	In process i Cascade CT Leak Detec poprzez zas Analyzer or Przedstawi (tłumaczeni
14:30	Rozpoczęcie konferencji		
14:45	PRELEKCJE:		
14:50	 Możliwości finansowania inwestycji w moce produkcyjne i rozwój produktów z dotacji UE na poziomie ogólnopolskim na poziomie regionalnym Przedstawiciel A1 Europe Sp. z o.o. KOMPLEKSOWE DORADZTWO UNIJNE 	17:10	Firma PLAS – aspekty p Przedstawi
		17:30	Psychologi Przedstawi
15:20	PAKIET PALIWOWY 2.0 – konsekwencje dla branży aerozolowej w Polsce. Parulski & Wspólnicy Doradcy Podatkowi s.c.		
		18:00	Zakończeni
15:50	Obecny stan prawny Rozporządzenia Krajowego oraz porównanie z Europejską Dyrektywą Aerozolową - PANEL DYSKUSYJNY	19:30	Kolacja ban
16:30	Przerwa kawowa	20:30-2:00	Spotkanie v

improvement and quality assurance by employing the T4404 Leak Analyzer and the CT2211 Inline Aerosol Micro ction system. (Doskonalenie w procesie i zapewnienie jakości stosowanie analizatora przecieków Cascade CT4404 Leak raz systemu CT2211 Inline Aerosol Micro Leak Detection). iciel firmy EMERSON/CASCADE – Global Product Manager. nie na j.polski)

STIPAK – Zastosowanie pojemników PET do produkcji aerozoli prawne i techniczne.

iciel firmy PLASTIPAK

iczne aspekty komunikacji w organizacji. iciel PZPPA

ie sesji prelekcji. Spotkania kuluarowe.

nkietowa

wieczorne w Klubie Utopia Hotelu Afrodyta



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PZPPA, Tartak Brzózki, Poland, 17. – 18.10.2019; Lutz Thannhäuser thyssenkrupp | Steel | Packaging Steel

engineering.tomorrow.together.





Lutz Thannhäuser Head of Technical Customer Service Italy, UK, Australia and South America SE-PS/QTS thyssenkrupp Rasselstein GmbH







Part of a high-performance supply chain Organization thyssenkrupp group – fiscal year 2015/2016

thyssenkrupp AG Sales: 39.3 bn EUR | Employees: 156,487

Steel

Materials Service

Elevator Technology



Packaging Steel¹

- 1,156 mn EUR Sales:
- 2,407 (as of 30.09.2016) **Employees:**
- Shipments: 1,379,000 t

1. business figures of thyssenkrupp Rasselstein GmbH

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Industrial Solutions

Components Technology









Known worldwide for high-quality packaging steel thyssenkrupp in Andernach

- World's largest production site for packaging steel
- Partner of about 400 customers in more than 80 countries
- Production capacity of 1.5 million tons a year
- Founded in 1760





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Whole product range from a single source

Competence and quality in packaging steel

Core competencies	rasselstein [®] products	Width, th Width: from 10 i	
Cold rolling of steel strip	Black plate		
TinningChromium coating	Tinplate ECCS/TFS	Thicknes from 0.10	
Organic coating	Lacquered PP, PET coated	Grades: from mile	



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nickness, grades

mm to 1,200 mm

ss: 00 mm to 0.499 mm

d to high-strength and up to full hard



Packaging Steel App

Make your smartphone smarter

- Packaging steel grades and innovations
- Instantly connect with personal contacts
- Download of certificates
- Push notifications with news
- and much more



Download at the app store or at www.thyssenkrupp-steel.com/de/apps







Chromium(VI): Political risk protection

Current status quo

REACH regulation defines September 21, 2017, as sunset date for the use of Chromium(VI).

As risk management measure, we are securing the interim use of Chromium(VI) unless substitution to the Chromium(VI)-free alternatives is achieved together with our partners in the supply chain:

via CTAC	 We* are currently benefiting from the transitional conditions of CTAC. We are permitted to use Chromium(VI) until the end of the official review period CTAC applicants) applied for authorization according to REACH legislation. The
	 In November 2018, we filed an application for continued use of Chromium(VI)
own AfA**	 In doing so, we are actively trying to give our customers the required time fra Chromium(VI)-free alternatives.
/	 As next step in the authorities' evaluation process, we are awaiting the draft of
via APEAL	 For the use of Chromium(VI) for Passivation of tinplate, APEAL members are AfA-dossier.

thyssenkrupp Rasselstein will continue to actively support the product transformation.

** AfA = Application for Authorisation according to REACH-regulation thyssenkrupp | Steel | Packaging Steel

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- od (tbd), as our importer (as part of e final decision is pending.
-) beyond the transitional period.
- me for testing and implementing the
- opinion from ECHA's committees.
- currently preparing a common



^{*} We = thyssenkrupp Rasselstein and other companies covered by CTAC (Chromium Trioxide Authorisation Consortium)

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- **Current status TCCT replacement of TFS**
- 2 Qualification in the market
- **3** Current status CFPA replacement of ETP passivation
- 4 Qualification in the market





Similar surface properties and appearance of TFS and TCCT

• Electrodeposition using Chromium(III)-electrolyte; layer composition: chromium metal and chromium oxide



TCCT very similar to TFS

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Current status TCCT – replacement of TFS

• TCCT stands for <u>Trivalent Chromium Coating Technology</u>

- The production of TFS will be converted to a Chromium(VI)-free process on the basis of Chromium(III)
- Technology is based on a patent of Tata Steel Europe
- thyssenkrupp has signed a patent license agreement and cooperates with Tata Steel Europe in a technology team
- With our TFS expertise, we have improved TCCT to be fit for purpose
- Food contact approved by FDA and EU

TCCT is a REACH-compliant TFS replacement

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TCCT

TFS







TCCT: Current status and outlook



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Conversion to serial production of TCCT



Let us go ahead and make it happen



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If you are interested in receiving samples of TCCT material, simply contact our Technical Customer Service.



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Current status CFPA – replacement of ETP passivation

- CFPA stands for <u>Chromium-Free Passivation Alternative on tinplate</u>
- The passivation of tinplate has been converted to chromium-free processes
- CFPA is a joint development of the European packaging steel suppliers under APEAL







The current passivation quality is the reference for CFPA





Wettability

311

SnOx Growth (ambient storage)



CFPA complies with the present standard 311 and beyond





Wettability



SnOx Growth (ambient storage)



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Outlook and rollout of CFPA

Status

First customers have changed to series production.

Fall 2018

Decision for further line

conversions at thyssenkrupp

EN 10202

Formal statements for introduction of CFPA into EN submitted in due time

Progressive ramp-up of capacity line by line

12 months lead time for components and resourcing

Steady increase of CFPA capacity

Spring 2018

1st tinning line ready for CFPA series production Start qualification with customers

Common work to rollout CFPA – let's establish and expand the network along the value chain

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CFPA adds high-quality surface properties to tinplate







CFPA is available for market introduction



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Conditions and time for CFPA are ready – we hand over the baton to you!

