

INOSSIDABILE

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Summary

For more detailed information please contact directly the names indicated at the end of each notification

FOR THE NEXT SUBSCRIPTIONS

With the next issue of the magazine (Inossidabile 219 – March 2020), it will no longer be distributed abroad in paper form, with the exception of the other Stainless Steel Development Associations (SSDAs) and the foreign steel mills. For the other foreign companies, it will however be possible to continue reading our magazine, in digital form, through our website. To confirm the subscription to Inossidabile, a request must be sent, specifying the email of the subscriber (it will be the username for the login), to the following email: redazione.inossidabile@centroinox.it. Then, once the password will be sent, it will be possible to read the latest issues of Inossidabile, entering the login credentials (the email and the password) at the following link: www.centroinox.it/en/user/login

After the first login, the reserved page, where the issues and the relative summaries can be read and downloaded, can be reached from the website homepage, under the menu “Magazine”.

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QUALITY, TRADITION AND... STAINLESS STEEL

(Qualità, tradizione e... acciaio inossidabile)

Born in 1944, a company based in Piacenza (Italy) is specialized in the production of Grana Padano. The processing, strictly traditional, is supported by technological plants, that allow to optimize the quality and to obtain a perfect product. Among these plants, the moulding plant is intended to house the freshly made rounds of cheese. The plant consists of two identical lines, characterized by a structure made in EN 1.4301 (AISI 304) stainless steel. This material is employed, in these lines, also for the four-story sliding structure of the boards on which the rounds of cheese rest, composed by stainless steel tubes (thickness of 3 mm), for the two lifts that move these rounds of cheese, for the washing plant of the boards and for the electrical panel case.

Dairy farm: Lattegra - Industria Casearia SpA – I-29010 Gragnanino di Gragnano Trebbiense PC – phone: +39 0523 789000, informazioni@lattegra.it, www.lattegra.it / **Moulding plant furnished by:** Senna Inox – I-26813 Graffignana LO – Viale Marcora 15, phone: +39 0371 209193, info@sennainox.it, www.sennainox.it

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THE ITALIAN MINISTERIAL DECREE 21 MARCH 1973: ITS NEW UPDATE AND THE LATEST NEWS ON THE “POSITIVE LIST” (Decreto Ministeriale 21 marzo 1973: è uscito l’aggiornamento del DM con importanti novità relative alla “lista positiva”)

Worldwide, the Italian Ministerial Decree 21/3/73 has been one of the first laws to regulate the hygiene and food discipline and to confirm the suitability for food use for some stainless steel grades, included in a so-called “positive list”.

The thirteenth update of this Ministerial Decree was published with the decree n. 72 of 9/5/2019: this update “substitutes”, in the Annex I, the old “positive list” with a new one. The new “positive list” contains 61 stainless steel grades, 50 of which in the Part A (standardized grades) and the remainder (11) in the Part B (non-standardized grades). In November, a correction notice of the Annex I of the above-mentioned decree was then published.

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FROM OUR MEMBERS ACCIAIERIE VALBRUNA (Acciaierie Valbruna)

STORY – Since 1925, Acciaierie Valbruna is a great reality of the Italian steel industry and, nowadays, it is characterized by an annual output of 200,000 tons of stainless steel and special alloy long products. The company offers a wide and diversified range of products that includes more than 700 different steels, such as: austenitic, martensitic, ferritic, precipitation hardening, duplex and superduplex stainless steels, nickel alloys, Fe-Si alloys, Ni-based and Fe-based superalloys. **PRODUCTS AND MARKETS** – The production range includes the following products: blums, billets, ingots, ESR & VAR ingots, rounds, stainless steel rebars, hexagons, flats, squared, angles, wire rod, wire, chromium plated stainless steel bars and threaded rods. Thanks to the constant technological update, Valbruna can satisfy an increasingly demanding market, introducing lasting and versatile materials, in accordance with the most relevant and updated international standards. **THE EVOLUTION OF MAXIVAL** – Valbruna has recently introduced Maxival EVO®, a premium line compared to the previous Maxival. The bars manufactured with this technology allow the machines to work at higher speeds, resulting

in an increase in productivity and a reduction in the average cost of the finished part. **QUALITY AND SOCIAL RESPONSIBILITY** – The definition and the management of the Company Quality System involves the organization in all business processes. The quality of the products is ensured by the full compliance with the European legislation on stainless steels (UNI EN 10088-3) and the strictest international standards. Valbruna has also always been committed to respecting the environmental regulations for the right to health and safety of workers.

ACCIAIERIE VALBRUNA SpA – I-36100 Vicenza - Viale della Scienza 25, phone: +39 0444 968211, fax: +39 0444 963836, www.valbruna-stainless-steel.com

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CHIMNEYS: THE REASONS WHY TO CONTINUE WITH STAINLESS STEEL

(Canne fumarie: perché continuare con l’inox)

In the last years, the market introduction of condensing boilers has substantially revolutionized the heating and plumbing sector. These boilers reduce the exhaust fumes’ temperature (50-70 °C) and this allowed to use innovative materials for their evacuation through the chimneys, such as the polypropylene (PP). However, PP can present some important problems:

- Possible deformations caused from the fumes’ temperatures that can exceed 70 °C, in case of malfunctions;
- Chemical degradation, mainly due to heat sources and to sunlight;
- Embrittlement, when PP is exposed to low temperatures.

These problems, that may arise during the operation of the chimneys, can eventually lead to their failure and to serious consequences from a safety point of view. Therefore, although the use of chimneys in PP may be an economically and

technically feasible solution, some “weaknesses” must be taken into account, and the use of alternative materials, such as stainless steel, must be evaluated accordingly. This material was massively employed for the chimneys before the advent of the condensing boilers and it is certainly not affected by the problems previously reported for PP. Although it may involve higher costs, the use of stainless steel chimneys still remains the best solution not only in terms of durability but also and above all in terms of safety.

Descriptive and photographic material furnished by: Expo Inox SpA – I-27020 Borgo San Siro PV - Viale Artigianato 6, phone: +39 0382 87237, fax: +39 0382 87330, info@expoinox.com, www.expoinox.com

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THE BEST CHOISE IS STAINLESS STEEL: AN ECO-FRIENDLY MATERIAL (La scelta migliore è l’inox: un materiale ecosostenibile)

In recent years, an ever increasing attention has been paid to environmental sustainability issues from the ecological point of view. Stainless steel, better than other materials, such as plastic for example, fits perfectly with the concept of sustainability thanks to its characteristics. This material is totally recyclable (100%). Every new stainless steel product, although it consists on average of 60% recycled material, remains of exactly the same quality as a “new” product. This is a substantial difference from other products, such as plastic ones, which “lose quality” when made starting from recycled material. When stainless steel products reach the end of their service life, over 80% of stainless steel is collected and recycled. This is not the case for plastics: not all the plastic that is collected is unfortunately recycled. The Italian national. To contrast this trend, the European Parliament definitively approved a new directive, published in June in the Official Journal of the European Union, which requires member states to ban the use of a number of disposable plastic items by 2021 and to increase the minimum content of recycled plastic in new products in the coming years.

In general, however, it must be considered that plastic is a widely used material in all sectors, not only for disposable items. And even in some areas, where the plastic component is not disposable, the alternative use of stainless steel can be an advantage. An example of this is the water supply, where the use of plastic, for the piping, is critical compared to stainless steel.

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STOP PLASTIC, ZERO KILOMETER WATER. THE HUTS OF PLOSE MOUNTAIN SET AN EXAMPLE!

(Basta plastica, acqua a chilometro zero. I rifugi della Plose danno l’esempio!)

Stainless steel has recently replaced plastic in many applications. The article reports several initiatives, conducted by numerous bodies and associations, which have also seen the distribution of stainless steel flasks, with the aim to reducing

the use of plastic and raising awareness of this important issue. Among these, we would like to underline the beautiful example of the mountain huts and lodges on the Plose, the “home mountain” of Brixen in South Tyrol (Italy): since 1 August 2019, plastic water bottles are no longer available in the huts. Also in this case, stainless steel bottles have been made available from the various tradesfolk of the Plose, which can be filled at the drinking water fountains that can be found in the area.

“Refill” Campaign curated by: Bressanone Turismo Cooperativa, in collaboration with Funivie Plose, the city of Brixen, the tradesfolk and the profit-sharing Acqua Potabile della Plose

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ENERGY RECOVERY WITH STAINLESS STEEL

(Un sistema inossidabile di recupero energetico)

Many “wet” processes end with the production of wastewater, which is no longer usable. Nevertheless, it has a residual energy content, which can be recovered by means of special heat exchangers.

The product presented in this article is a rotary heat exchanger specifically designed to work with very dirty fluids, even containing solids or impurities, without losing efficiency. It can guarantee a constancy of use and efficiency, as it does not plug and it does not get dirty. Because of the highly polluted fluids that this exchanger is used to treat, EN 1.4404 (AISI 316L) stainless steel has been chosen for its construction, as it is a material characterized by a considerable corrosion resistance.

Production and patent: Pozzi Leopoldo Srl – I-20825 Barlassina MB – via Paganini 14, info@pozzi.it, www.pozzi.it

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SMR PREMIUM PRESENTS FIRST DIRECTORY “OPEN-DIE FORGING BOOK”

(SMR Premium presenta la prima directory “Open-Die Forging Book”)

SMR Premium is publishing a new Open-Die Forging Book. It is the first, comprehensive handbook of open die forging producers, including company profiles of more than 270 global producers and a separate chapter about forging market data.

SMR Premium GmbH is as a boutique consultancy based in Düsseldorf, focusing on the markets of remelted steels, forged products and high value metals, like Titanium and Powder Metallurgy. The company belongs to the 25 years-old SMR Group based in Austria.

For questions and orders:
c.siebenhuener@smr-premium.com
or info@smrpremium.com

For more details: www.smr-premium.com

**WEB SEMINAR
STAINLESS STEELS: LEGISLATION/
LAWS/ DECREES**

(Gli acciai inossidabili: normazione/leggi/decreti)

4 March 2020 – 9.30÷16.00

Centro Inox and UNSIDER (the Italian Body for the Standardization of the Iron and Steel Industry) organize a web seminar with the aim of presenting to all the companies belonging to the stainless steel supply chain the state of the art regarding the revisions in place for the main European standards governing stainless steel products.

After an introduction concerning the way in which a standard is drawn up, the situation for standards relating to the technical delivery conditions for flat and long products, welded and seamless tubes, with the most recent news coming from the Technical Committees dealing with their update and revision, will be investigated in depth. Then, a comparison with ASTM standards dealing with the same stainless steel products will be proposed and information will be provided on how to order them correctly. The web seminar will conclude with an analysis on two topics of current interest for the steel sector: the legislation for the Food Contact Materials (FCMs, or MOCA in Italian), with the latest update of the Italian Ministerial Decree 21.3.73, and the CPR regulation. The speeches will be carried out by Centro Inox and Unsider.

The complete programme and the registration form are available on Centro Inox website: www.centroinox.it

For further information and registration:
phone: +39 02 86450559 / +39 02 86450569,
e-mail: eventi@centroinox.it

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DINOXAURS IN THE GARDEN (Dinoxauri in giardino)

For your gardens, forget the traditional ceramic dwarfs and choose a stainless steel velociraptor! The sculpture presented in the article, 2 meters high and almost 4 meters long, was made by an English artist with EN 1.4401 (AISI 316) stainless steel sheets characterized by a patterned finish (5WL). This peculiar finish, traditionally used for packaging systems and for other machinery, assumes its own artistic identity here.

Artist: Michael Turner,
www.michaelturnerstudios.co.uk

“Rice grain” 5WL patterned stainless steel produced by Rimex Metals UK and distributed exclusively in Italy by: Steel Service Srl – I-26845 Codogno LO – Via Armando Diaz 80/C, phone: +39 0377 379821, fax: +39 0377 400818, commerciale@steelservicegroup.com, www.inoxcolorato.com

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