

STEEL FOR PACKAGING





Why Steel?





Ecofriendly alternative

cut food waste

fast and efficient filling

> unique formability

greater differentiation

endless variety easy recycling

safer stronger packaging

superior metallic

finish

for ckagir

multi-layer stackability

great value Multiple Recycling fresh for longer

shelf life champion

100% barrier protection

spoilage

recycles forever

retail ready packaging





Message from the President

The global focus on sustainability is greater than ever before.

I was therefore excited to begin my presidency of APEAL at a time of great innovation in the industry and I look forward to working with stakeholders throughout the value chain to support this sustainability focus at every level.

Steel is an integral part of the EU effort to achieve the resource efficient vision for Europe and a greener future, the ultimate aims of the European Green Deal. The European Steel Industry's transition to a low carbon future is well underway and all APEAL members will continue working with stakeholders throughout the value chain to reach carbonneutrality by 2050 at the latest, with relevant CO2 emissions reduction targets by 2030.

In addition, steel packaging is ideally positioned to continue playing a significant role in global food security challenges, providing a proven means to package and preserve food safely and efficiently, whilst helping to reduce energy consumption throughout the supply chain and at home with refrigeration–free transport and storage.

The efficiency of steel packaging is now more important than ever in the drive to reduce waste and create a circular economy. It is vital that packaging formats are easy to collect, sort and recycle, in order to support the European Commission's drive

to reduce packaging waste and help consumers to play their part in a more circular economy.

APEAL has also recently focused significant attention on closing the loop of steel recycling through promotion of separate collection amongst other actions, releasing its report, Why Steel Recycles Forever, and APEAL will strive for greater focus on ensuring that no recyclable packaging goes to landfill.

Permanent materials such as steel are too valuable to waste.

While the years ahead will present many significant challenges, steel packaging will undoubtedly play a vital role in helping us all to enjoy the benefits of a more sustainable and resource efficient economy in Europe.

I look forward to steering APEAL as the team continues to work with the European Commission, European Parliament, Member States and all stakeholders to deliver on these ambitious plans.

Luc BrantjesPresident of APEAL

Protecting Today

Steel for Packaging protects products and cuts waste at every stage in the supply chain and beyond.



Saves taste and cuts waste

Food packaged in steel retains its flavour and nutritional value longer than in any other packaging format. It contains the equivalent vitamin content to freshly prepared food and portion–sized packaging allows consumers to choose the size they need and cut waste.



Unique 100% barrier protection

Steel packaging is impermeable to light, gasses and liquids and provides greater product protection than any other material, delivering your brand's promise of quality in a format consumers can trust.



Unbeatable strength

The mechanical strength of steel packaging makes it impact-resistant, puncture-resistant, and virtually unbreakable in the supply chain, minimises damage, loss and waste and provides optimal resistance to high-pressure filling of aerosol cans.





How steel stacks up against other packaging materials

U 500 units/minute 36 mths **85.5% Infinite** + total light barrier for cans 400 u/m 240 u/m 18 mths 12 mths 30% < 1.0 with aluminium foil 17.4 with EVOH **Oxygen intake Top filling Shelf life** Recycling **Maximum number** of recycling loops speeds rates measured in cm³ / m² / day / 1 bar atmosphere, for 100 microns thickness of packaging



Unique formable properties

Shaping, embossing, debossing, specialist printing and lacquers differentiates your brand.



High-quality metallic aesthetics

Matt or gloss opportunities for primary and secondary packaging with 360° of printable space.

Design for the 21st century





Endless variety in shape and volume

Complete product range for every target group from 50ml to 40l.



No Spoilage

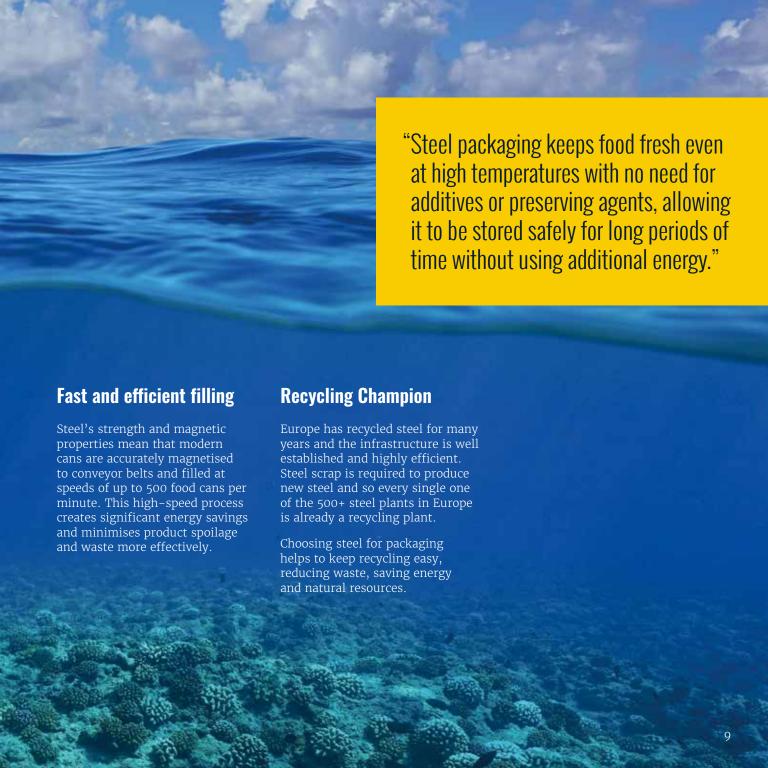
Steel's unique barrier properties mean it prevents contamination more effectively than any other material.

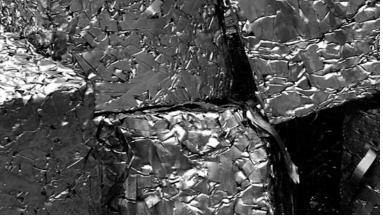
Shelf life champion

Steel packaging keeps food fresh for longer even at ambient or high temperatures, reducing energy use and cutting waste.

Saving natural resources

The energy and raw materials embedded in recycled cans are entirely reused and every item of recycled steel packaging saves over one and a half times its weight in CO2.







The rise of 'real recycling'

In recent years the packaging landscape has changed dramatically.

The dual challenge of achieving a more circular economy and driving greater sustainability across all packaging formats has placed increasing importance upon defining recyclability and positioned 'real recycling' high on the political agenda.

EU legislation adopted in 2018 means that higher recycling targets will take effect for most packaging materials in 2025, along with the introduction of specific legislation limiting non-recycled single use plastics. At the same time, the new EU recycling rate calculation methodology which guarantees that only the accepted tonnages at the entrance of the recycling operations are used to calculate the recycled tonnages, instead of collected or sorted tonnages, has served to create a level playing field, not only for the Member States, but also for the packaging materials. It means that only real recycling will be reported.

Early 2020 the European Commission adopted the Circular Economy Action Plan (CEAP 2.0), one of the building blocks of the European Green deal, with objective that all packaging on the EU market be reusable or recyclable in an economically viable way by 2030.

Most recently, the European Commission's Packaging and Packaging Waste Regulation (PPWR)

proposal, published in November 2022, introduces 'recyclability performance grades' based on design for recycling criteria to be stimulated through the ecomodulation of the Extended Producer Responsibility fees, along with waste reduction targets and a definition of what constitutes recycling at scale.

Ultimately, for Europe to achieve its vision of moving to an efficient, waste-free and circular economy, brands need to recognise the importance of using permanent materials that can maintain multiple material loops without loss of quality and where 100% of the output is used to make new products.

Steel for packaging is a proven model of circularity. Magnetic properties make steel the easiest and most economical packaging material to recover from any waste stream, steel scrap is a requirement in the process for new steel and it can be recycled forever without loss of quality. It is estimated that 75% of all steel products ever made are still in use today!

It is APEAL's hope that the new regulations will illustrate the importance of real recycling, stimulate innovation in packaging design and convince more brands to focus on sustainability by adopting permanent materials such as steel.





APEAL

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APEAL – the Association of European Producers of Steel for Packaging – unites the six producers of steel for packaging in Europe. Founded in 1986, APEAL represents:







TATA STEEL





