A safe and sustainable option

Stainless steel water bottles
Introduction

There are many advantages to using stainless steel reusable bottles. They can save your health, your wallet and the environment! Discover some aspects in this document.
The continuing safety of using stainless steel in food preparation has been confirmed in an independent study following the adoption of new test criteria across Europe. The Council of Europe's (CoE) guidelines for metals and alloys in food contact materials defines specific release limits (SRLs) for metals and includes a new, more aggressive test to simulate use in food preparation. Stainless steel water bottles are made from food-grade stainless steel and can therefore be seen as very safe (click here for more information).
Durable

Stainless steel is a highly-durable metal, which can withstand the wear and tear of everyday activities. This is due to the self-repair mechanism of these steels. Due to the alloying elements in the stainless steel, a thin, transparent “passive layer” is formed on the surface. This is also why they don’t require any coating or other corrosion protection (click here for more information).
Stainless steels are 100% recyclable. 60% of all new stainless steel comes from recycled material. Because stainless steel has such a long life and demand is increasing, there is not enough stainless steel scrap available for all new stainless steels to be made of 100% recycled stainless steel (click here for more information).
Stainless steel water bottles

CO₂-saver

On average a stainless steel bottle can be used 670 times. To produce 1 stainless steel bottle, on average 543g of CO₂ is emitted. To produce 1 plastic single-use bottle, 80g of CO₂ is emitted. For 670 plastic single-use bottles 53600g of CO₂ is emitted, making stainless steel the more environmentally sustainable choice.

Stainless Steel Bottle
- costs 30 Euro and will last at least 670 uses
  - 543g CO₂ emitted to produce 1 bottle

Plastic single-use bottle
- costs 0.25 Euro each
  - 0.25 x 670 = 167.50 Euro
- 80g CO₂ emitted to produce 1 plastic water bottle
  - 80 x 670 = 53600g of CO₂
Easy to clean and disinfect

Due to their smooth surface, stainless steels are very easy to clean. Some washing-up liquid and water will do the job! (click here for more information).

Stainless steels are exceptionally wear-resistant, making it difficult for germs to adhere and grow. A stainless steel water bottle is therefore a very hygienic option also. (click here for more information).
On average a stainless steel bottle can be used 670 times. A bottle will cost approximately €30 and a liter of water in a non-reusable plastic bottle costs €0.25. After drinking water 670 times from your stainless steel bottle, you will still have spent only €30. If you opt for the €0.25 plastic bottle, you will have spent €167.5...
Unbreakable

Even if you drop your favourite stainless steel bottle, it will not break or become brittle, but remain as sturdy as ever, serving you for a long time after you dropped it! (click here for more information)
Functional

Since you cannot see through stainless steel bottles, neither can the sun. It is harder for sun rays to penetrate the bottle, thus keeping your drink cooler for longer.
Fashionable

Stainless steel bottles can come in a natural stainless steel colour, where no coating or colour has been applied or can have the most fashionable colours and styles you like!
worldstainless is a not-for-profit research and development association which was founded in 1996 as the International Stainless Steel Forum.

Its primary roles are to undertake stainless steel industry beneficial tasks that are better coordinated centrally in the fields of

- Promoting industry and material sustainability benefits
- Conserving resources and promoting the circular economy
- Providing economic and industry-leading statistics
- Support industry health & safety needs and developments
- Outlining market development and expansion opportunities
- Maintaining brand reputational positioning
- Materials education

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