

CHANGE NOTE

SAMSUNG

SUSTAINABILITY

Galaxy S23 Series



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Why Sustainability?

Changes don't happen overnight. We've heard many great stories about millions of daily actions making a big impact. Samsung sees the environment in the same way. From manufacturing, to product use, to disposal, we make sure our product experience at every step contributes to a sustainable world for all of us.



"Together for Tomorrow"

From Galaxy smartphones made of recycled materials from discarded fishing nets, to eco packaging that transforms box packaging into everyday living items, to home appliances that help you use energy more efficiently via SmartThings Energy.

Samsung's eco conscious technology and innovation are built into all of our products. Simply by using them, customers can make small actions for a better planet in their daily life. These small changes come together to make our lives more sustainable. That's our story of sustainable life.



Why Sustainability?

However, Samsung alone cannot achieve the goal without people taking an active role in the process. So through all touch points, we'll encourage customers' participation so they feel like they're an equal part of the same journey of a sustainable future.



"Everyday Sustainability"



1. Product

Designed to make a positive impact on the planet

Various recycled materials, such as ocean-bound plastics and post-consumer materials, are widely used throughout the product.

Ocean-bound Plastic Innovation

By the end of 2022, Samsung expects to recycle about 50 tons of discarded fishing nets*

* Based on the internal research.

* Source: Samsung Newsroom (<https://bit.ly/3oPGjNl>)

Recycling process of discarded fishing nets



[Source Materials Used in S23 Series]



Fishing Nets

S Pen inner cover,
Speaker module
(Certain parts)



Glass

Front &
back glass



Aluminum

SIM tray,
Volume/Side keys
(Outer)



PET Bottle

Back glass film

※ Where recycled materials are used in the S23 Series

What's inside our smartphone can help protect our precious planet

Glass

Recycled Glass

- Front & back glass (Gorilla Glass)

Recycled PET

- Back glass film

Metal

Recycled Aluminum

- SIM tray
- Volume/Side keys (Outer)



Plastic

PCM (Post-consumer Material)

- Volume/Side keys (Inner)
- Metal bonding resin
- Speaker module (Certain parts)

OBP (Ocean-bound Plastic)

- S Pen inner cover
- Speaker module (Certain parts)

* mmWave ANT deco is also made from PCM and OBP (US, Japan only)

Components

Recycled materials used (S23 Ultra, grams)

S-Pen inner cover	Recycled 0.14g / total 0.71g
mmW ANT Deco	Recycled 0.01g / total 0.09g
Metal bonding resin	Recycled 0.96g / total 9.6g
Speaker module	Recycled 0.55g / total 2.75g
Volume/side keys (inner)	Recycled 0.016g / total 0.081g
Volume/side keys, SIM Tray	Recycled 0.09g / total 0.29g
Front & back glass	Recycled 6.9g / total 27.8g
Back glass film	Recycled 0.65g / total 0.81g

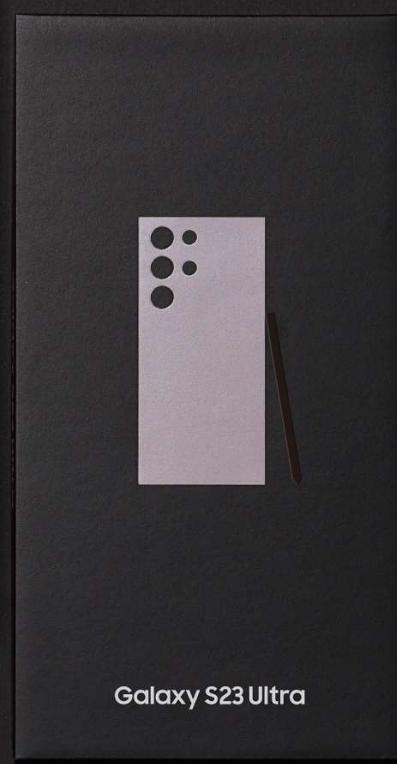


2. Packaging

Eco-conscious steps,
even for the box.

Our sustainability efforts have expanded to the product's box and protector (Front & Back cover), which is made of 100% recycled paper. The sealing label has also been made with paper.

100%
RECYCLED PAPER
for product box &
protector (Front & Back cover)



Paper sealing label

* Vary by region.



3. Accessories

Certified, sustainable accessories

S23-exclusive accessories received **ECOLOGO certification from UL Solutions** by applying recycled and bio-based materials.



Key Elements of Accessories



1 Use of recycled materials (PCM, Recycled micro fiber)



2 Use of bio-based materials*

* Use of bio-based materials helps reduce carbon emissions.



Accessory Lineup



※ Galaxy for the Planet

Our vision for a more sustainable future



1

Reduce



Minimizing E-Waste* through repairs

About 5,000 service centers in the world for extended use

* E-Waste is discarded electrical or electronic devices nearing the end of their "useful life."



Optimizing product life with long-term SW upgrades

4 rounds of Android OS upgrades

& 5 years of security firmware updates

2

Reuse



Reusing old devices with the Galaxy Upcycling program

Reuse old phones as an optometer or IoT device with a simple update



Extending product life with Trade-in & CRN programs

Collect & resell used devices after strict checks to reduce E-Waste

* The Certified Re-Newed (CRN) program is selling refurbished Galaxy devices that are certified by Samsung.

3

Recycle



Recycling unused devices with the Take-Back program

Retrieve unused devices through user donations of old products to utilize them in new ways through recycling