


New eco-friendly toner from KYOCERA

The new KYOCERA toner provides three benefits.



Low fusing temperature
Energy saving



New production method
Ecology

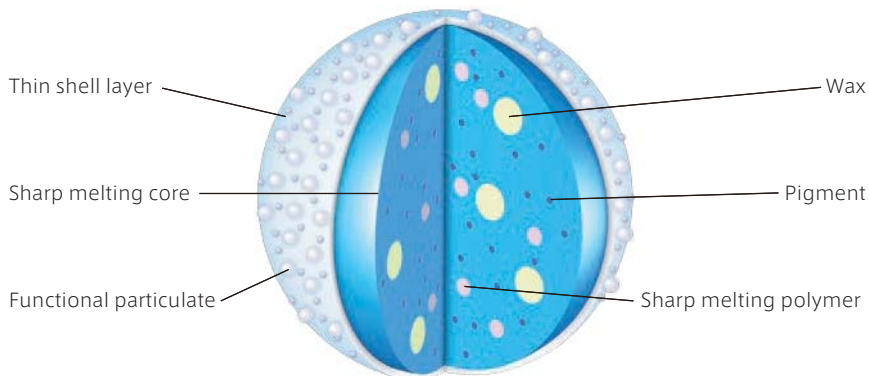


Enlarged color reproduction space
Vibrant image

Energy saving

Realize low temperature fusing using thin shell structure

The new toner from KYOCERA has been developed by a unique production method. The toner is structured with a thin shell around the sharp melting core. This enables both low-temperature fusing and long-term stability, contributing to energy saving performance.

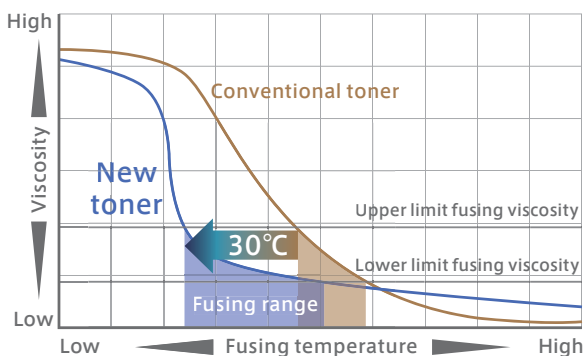


New KYOCERA toner

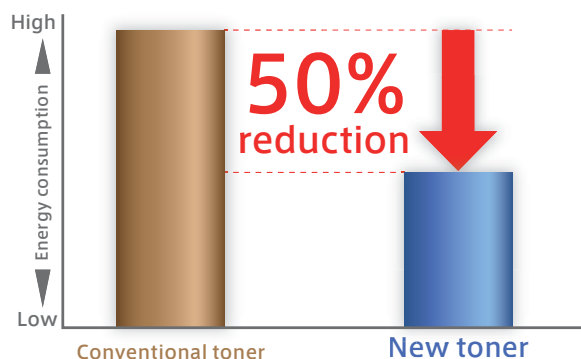
Low fusing temperature contributes to energy savings

The toner fusing process consumes approximately 70% of the total energy consumption in both MFPs (multifunctional products) and single-function printers. The new KYOCERA toner can fuse at 30 °C less than that of the conventional products. As a result, the total energy consumption could be reduced up to half with this toner compared to the previous systems.

Change in fusing range and viscosity



Comparison of energy consumption



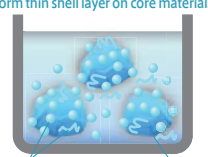
Ecology

New production method for toner

The new KYOCERA toner has a thin shell outer layer produced by a unique chemical production process. It is important to remember that no organic solvent and only a limited volume of water is required in this process. Thus, KYOCERA is minimizing the environmental impact from the production process all the way to the customer's environment.

The new toner production process

New unique chemical production process
Form thin shell layer on core materials



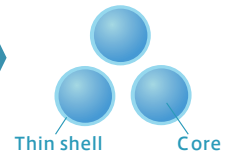
Shell materials Core materials

ECO

No organic solvent is required

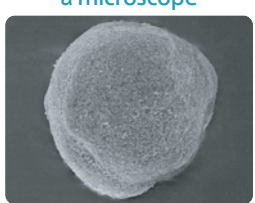
Extremely limited volume of water is required

The new KYOCERA toner model



Thin shell layer Core materials

New toner particle under a microscope

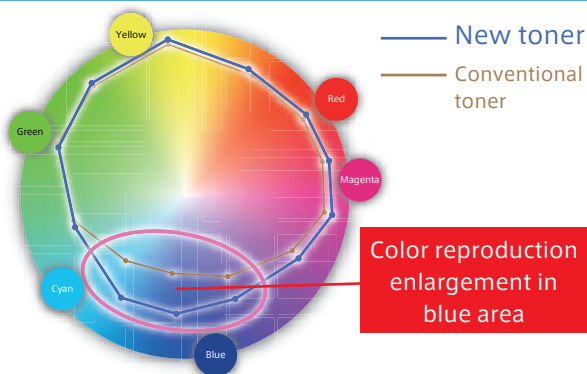


Vibrant image

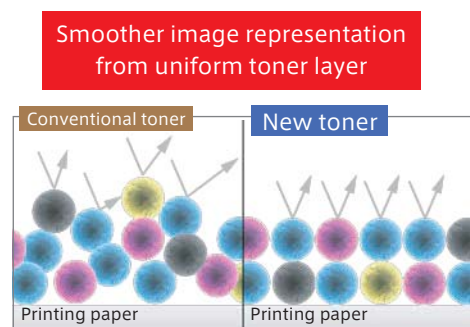
Vibrant image by enlargement of color reproduction space and uniform toner layer

Smoother image representation is possible thanks to uniform toner layer forming. We could enhance color reproduction specially in cyan (blue) area, due to a change of toner coloring material.

Color reproduction space comparison



Sectional view comparison of toner on paper



Color reproduction and smoother image representation by new KYOCERA toner

