

RESOURCE SAVINGS



KERADUR SERVICE OY

used **green care** PROFESSIONAL products for professional cleaning in the period 1 January 2019 - 31 December 2019. We hereby certify the calculated resource savings of plastics, oil, and CO₂ are based on product quantities delivered to the customer.

The calculation was performed by the **green care** PERFORMANCE CALCULATOR on get.wmprof.com

The certified volumes and relative scores are based on Ecolabel and Cradle-to-Cradle® product certifications.

The plastic containers of the products covered by this certificate comprise **93%** recycled material (recyclate ratio). The calculation of the certification has been validated by environmental auditors of INTECHNICA Cert GmbH.



green care PERFORMANCE CALCULATOR



For further information please contact us at info.professional@werner-mertz.com or visit wmprof.com to learn more about our range of *green care* PROFESSIONAL products.

Explanation of calculation

The calculation was performed by the *green care* Performance Calculator on get.wmprof.com and is based on up to 100% recycled plastic packaging, formulations with natural ingredients, use of 100% renewable energies in production and with own water treatment.

Each product adds its own savings result, based on its recycled polymer packaging mass and the mass of non-petrochemical ingredients. The calculation method is attached to article list and this document.

Packaging:

All calculations are based on the real packaging mass. Any recycle used in packaging reduces the amount of crude oil needed for virgin material.

We use a conversion factor of 1:1 from plastics to crude oil for transparency reasons.

Real savings may be higher:

Literature values for saved fossil resources for PE, PP and PET are all above 1.2 kg / kg and ranges may go up to 1.9 kg fossil resources per kg plastics. (based on W.A.R.M. model 14 by US Environmental Protection Agency, EPA).

The burning of the calculated amount of crude oil multiplied with 3.14 leads to carbon dioxide emissions and savings.

Formulations:

Here, we also use a conversion factor 1:1 for carbon used in our formulations: renewable sources vs the equivalent of carbon in petrochemicals, which are based on crude oil.

Although the actual process yield for each substance is typically much lower than 100% (the input amount of crude oil having a higher factor than 1), we use it here to avoid misunderstandings.

We convert mass of the carbon atoms into mass of crude oil by a factor of 1.17 to correct for the hydrogen content.

Conversion into eCO₂:

A typical yield of 1 barrel of crude oil consists of:

1. Gasoline: 44.1% (70.12 litres)
2. Distillate fuel oil: 20.8% (33.07 litres)
3. Kerosene-type jet fuel: 9.3% (14.79 litres)
4. Residual fuel oil: 5.2% (8.27 litres)**

Percentage values from Riegel's Handbook of Industrial Chemistry, 2003 edition (Page 515, Fig. 15.6). Litre values based upon conversion rate of 159 litres per barrel.

Recycling cycles:

We calculate with 1 recycling cycle even if recycle is again recyclable. However, with a lack of widespread processes the incoming flow of recycle cannot be traced for higher recycling cycles.

Selected article bid list

Supplementary information

Please click on the link to receive all SDS and technical Sustainability Information documents of the selected products:

<https://get.wmprof.com/supplementaryinfo>

Family	Article	Description	Packaging	Article number	Quantity
GLASS	Cleaner	glass & window cleaner	0.75l spray bottle	712494	50
LONGLIFE	Matt	high quality matt floor dispersion	5l can	714289	2
LONGLIFE	Polish	high-gloss floor polishn	5l can	712514	12
TANET	Sr 15	high performance floor & surface cleaner	1l bottle	712479	2050
TANET	Sr 15	high performance floor & surface cleaner	5l can	712480	504
TANET	Sr 15 F	high performance floor & surface cleaner	1l bottle	712605	50
GREASE	Perfect	kitchen degreaser	0.75l spray bottle	712570	1100
GREASE	Perfect	kitchen degreaser	5l can	712574	2
MANUDISH	Original	hand dishwashing liquid	1l bottle	712575	6100
LAVAMANI	Sensation	hypoallergenic caring handsoap	0.5l pump bottle	712516	220
LAVAMANI	Sensation	hypoallergenic caring handsoap	5l can	712519	16