

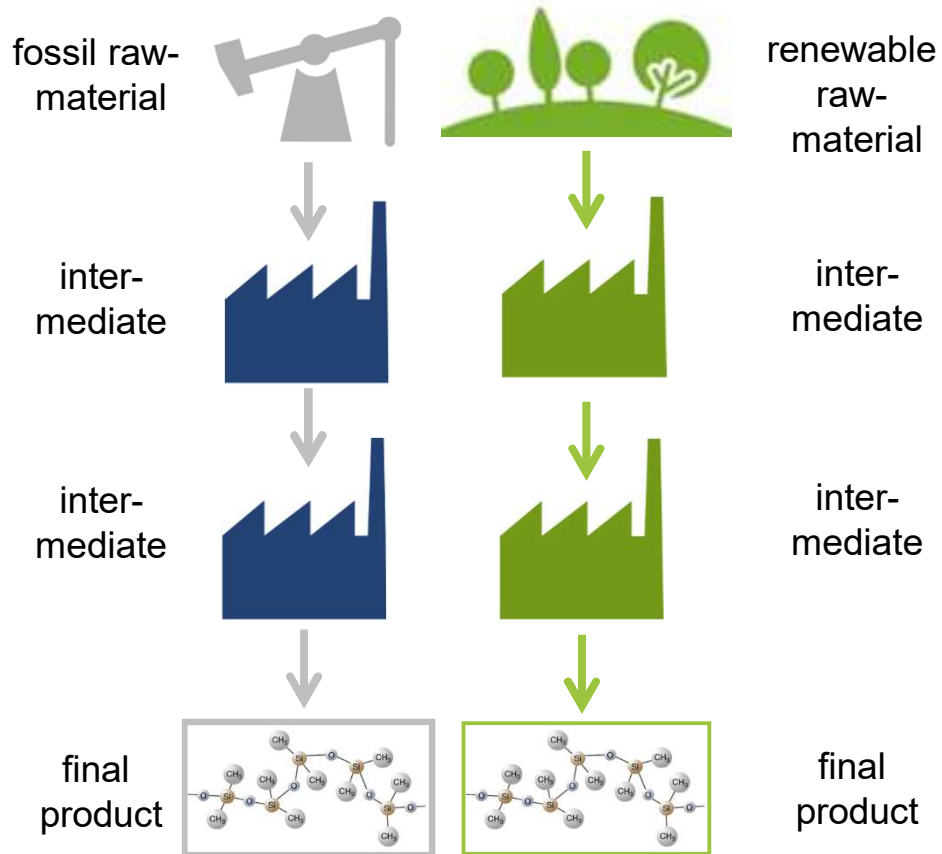
WACKER

CREATING TOMORROW'S SOLUTIONS

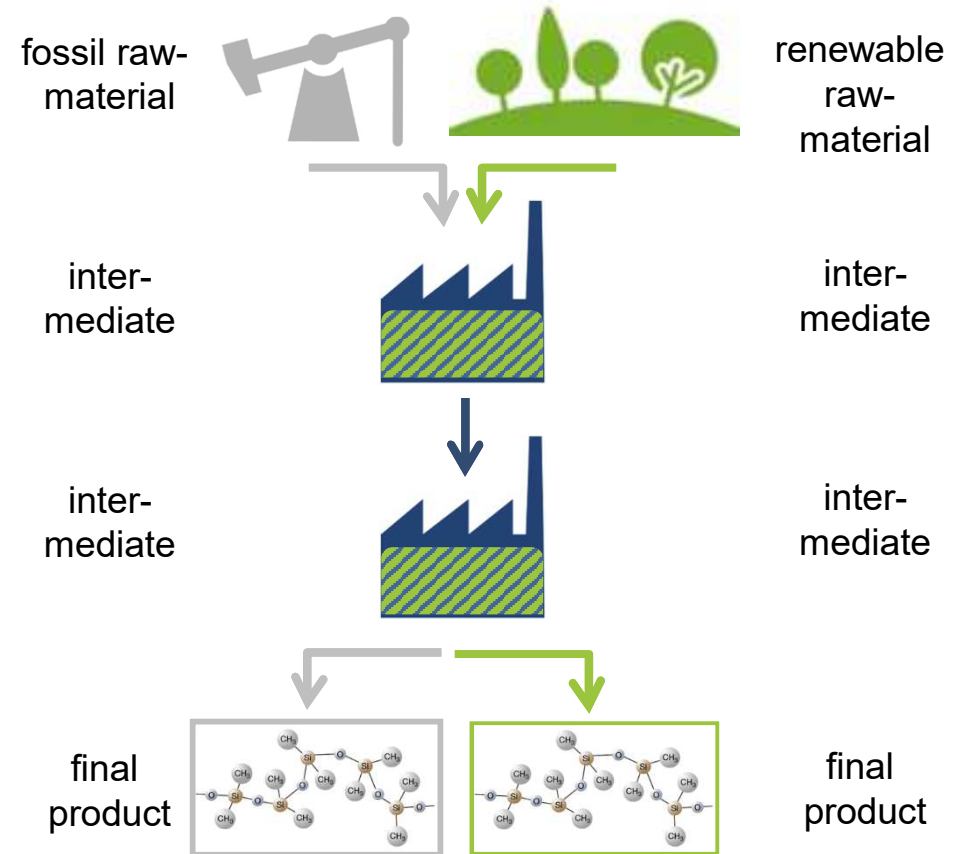


BELSIL® eco line

Mass-Balance approach as an economic way to access silicone fluids based on fossil free raw material



► **Dedicated Production**



► **Production with Mass-Balance Approach**

What's the difference ?

Base material



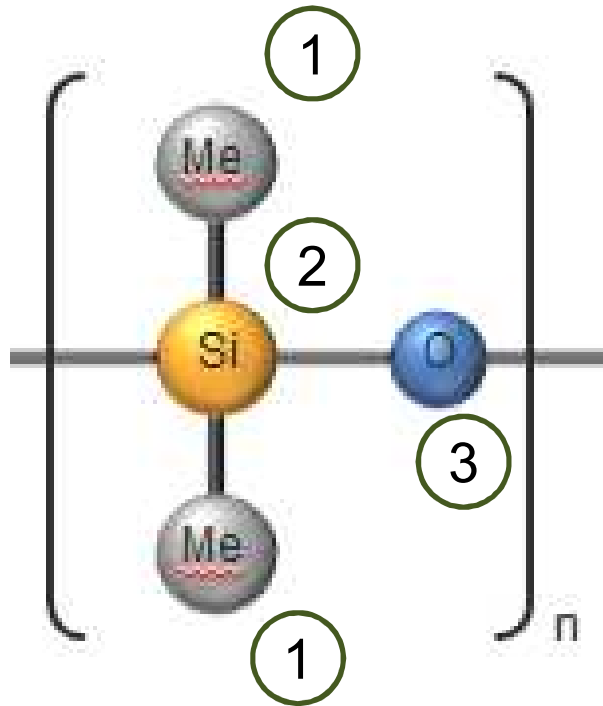
► **BELSIL® DM**

Base material



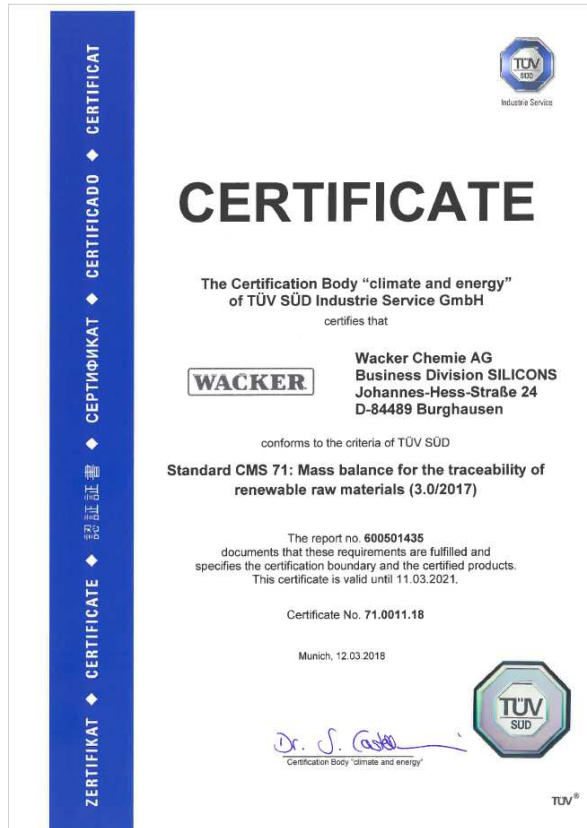
► **BELSIL® eco DM**

Dimethicone based on 100% fossil free raw material

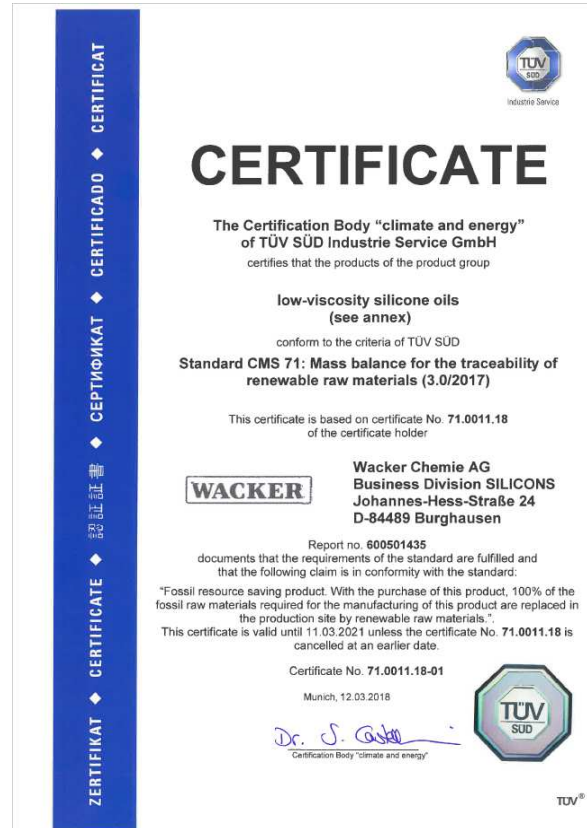


- 1 Methyl units:** origin Methanol – fossil based Methanol is replaced by Biomethanol from straw, grass, sugar beets and other plants residues
- 2 Silicon:** origin quartz sand is non-fossil, it is converted with coal to silicon. This fossil carbon is compensated by using an equivalent amount of biomethanol in the full integrated production plant
- 3 Oxygen:** oxygen comes from hydrolysis step using water. Water is a non-fossil ingredient.

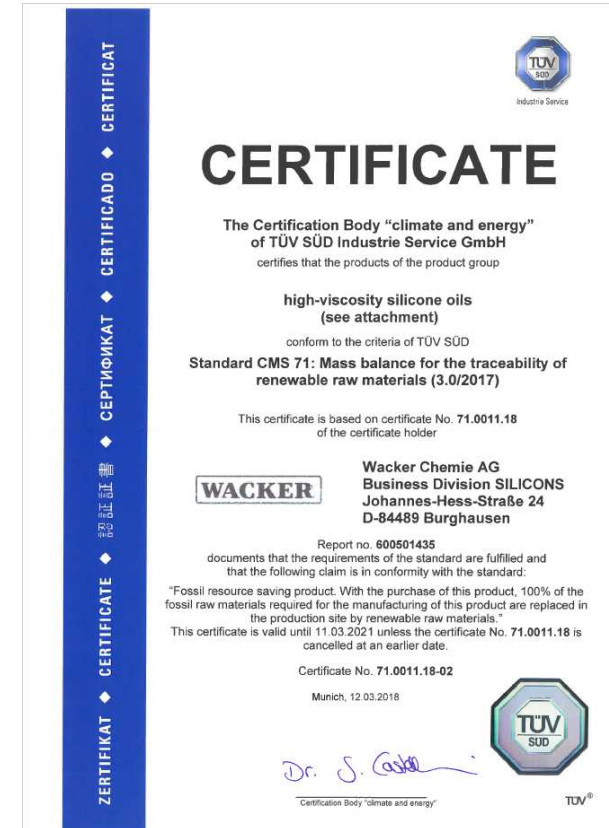
TÜV-SÜD Standard CMS 71: Mass balance for the traceability of renewable raw materials



- ▶ Main certificate
- ▶ No. 71.0011.18



- ▶ low-viscosity silicone oils
- ▶ No. 71.0011.18-01



- ▶ high-viscosity silicone oils
- ▶ No. 71.0011.18-02

BELSIL® eco line

Dimethicones

BELSIL® eco

DM 0.65 (Disiloxane)

DM 5 (all: Dimethicone)

DM 10

DM 20

DM 50

DM 100

DM 350

DM 1000

DM 60.000

Gum Blends

BELSIL® eco

GB 1020 (Dimethicone,
Dimethiconol)

Resins

BELSIL® eco

TMS 803 (Trimethyl-
siloxysilicate)

BELSIL® eco DM fluids



BELSIL® eco Dimethicones

- ▶ 1st Silicone company offering dimethicones based on bio-methanol
- ▶ *“Fossil resource saving product. With the purchase of this product, 100% of the fossil materials required for the manufacturing of this product are replaced in the production site by renewable raw materials.”*
- ▶ mass-balance approach meets the criteria of TÜV-SÜD standard CMS 71 for the traceability of renewable raw materials
- ▶ use of bio-methanol from plant residues like sugar beets, straw, grass.
- ▶ support for product lines with focus on sustainability
- ▶ Wacker’s calculation show better CO₂ balance vs. standard fluids :

1tons of BELSIL® eco fluids saves 1,6 tons of CO₂

