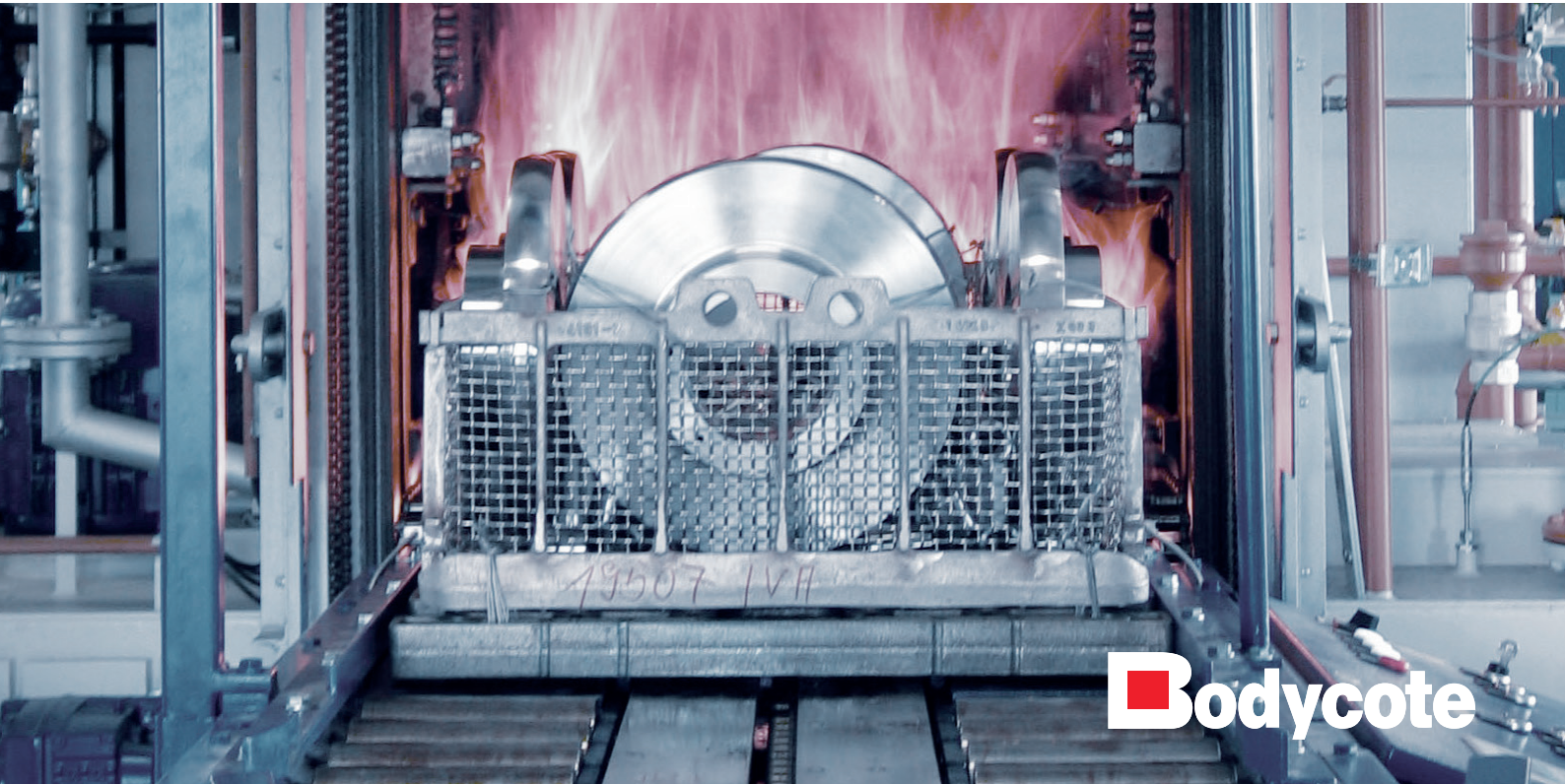


# BUSINESSCASE

## BODYCOTE



## Bodycote saves € 26,000 per year with DST-DEGREEZ®

Bodycote is the world's leading supplier of heat treatment and has experience providing services for all kinds of companies, from large multinational customers and their supply chains to local niche specialists. Bodycote is an important link in the manufacturing process for practically all markets, including the space travel and defence industries, cars, power stations, oil & gas, construction, machinery, pharmaceutical companies and the transport industry.

Bodycote Varmebehandling A/S is Denmark's leading supplier of hardening services and supplier of the widest selection of processes within heat treatment and metallurgical services.

Long-term relations with Bodycote provide access to an abundance of knowledge and expertise from the group's interactive metallurgical divisions, which cover more than 170 hardening companies in 27 countries through Bodycote Plc.

Read more on [www.bodycote.dk](http://www.bodycote.dk) and [www.bodycote.com](http://www.bodycote.com)

**DST-DEGREEZ®**

Headquarters: DST-CHEMICALS A/S · Merkurvej 27B · DK-6000 Kolding · Tel: +45 7550 6360

Bodycote in Denmark, which hardens steel, consumes a lot of energy on the hardening process. Since 2010, it has been one of their goals to reduce energy consumption. One method has been to lower the temperature of the washers to 45°C.

Not only has the washing temperature been lowered – it has been of just as much significance that the production flow during hardening has been optimised,



**DST-CHEMICALS®**  
PURE PERFORMANCE

[www.dstchemicals.com](http://www.dstchemicals.com)

which means that no unnecessary energy is consumed while the hardened items wait in line at the washing process.

The solution was DST-DEGREEZ/16 – a brand-new and ground-breaking product that has been developed precisely for hardening oils. The development has been carried out in close cooperation with Bodycote in Ejby, which has been an important business partner of DST-CHEMICALS for several years with regard to development and optimisation of products for hardening plants.

## FACTS

- Industry:** Hardening company
- Process:** Washing of metal products before and after hardening
- Products:** DST-DEGREEZ/16 (3-5%) degreaser  
DST-PAS/1 (0.5-1%) corrosion inhibitor
- Other:** Washing before and after gas nitriding with DST-DEGREEZ/3P (5%) degreaser

COMPLETELY OIL-FREE SURFACE

## BEFORE

**Washing temperature of 60°C**  
High evaporation  
Fast drying  
Good degreasing quality

Short bath lives  
Excessive waste water  
High product conductivity  
Large overflow

Frequent bath changes  
Fewer production hours

## AFTER

**Washing temperature of 45°C**  
Low evaporation  
Same drying time  
Exceptional degreasing quality  
Completely oil-free surface  
Fast run-off of water

Long bath lives  
4-7 times longer  
Amount of waste water reduced by 69%  
Elimination of bottleneck

Rare bath changes  
More available production hours  
84 hours a year  
Optimisation of the production flow  
Better use of 3 shifts

Low product conductivity  
No stains on the items  
No subsequent cleaning

Extremely fast oil skimming  
The oil is removed at once with an oil skimmer  
Clean baths  
Reduced overflow



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