



# GS Laundries

in association with

Total Laundry Care Ltd

## Total Ozone Laundry Disinfection



Put a little TLC in your laundry

&

The environment

# GS Laundries in association with Total Laundry Care Services Ltd introduce Total Laundry Disinfection using Ozone Technology.

## Ozone Laundry Technology

Ozone is widely known as the gas that protects the earth from the sun. This naturally occurring gas can now be reproduced in the real world and has had a huge impact on the elimination of super bugs, viruses and bacteria on both skin and linen.

### How it works

Ozone is created by :

- 1. Converting air into 90% pure oxygen
- 2. An electrical charge is then used to split the oxygen molecules
- 3. Molecules then re-assemble and form Ozone gas - O<sub>3</sub>
- 4. The newly created Ozone gas is then infused into the water
- 5. The Ozonated water is then delivered into the washing machine
- 6. The water oxidises the laundry in the wash cycle at any temperature
- 7. Ozone will attack the molecules that bond the dirt to the material and the soil is then separated from the material



Ozone is a natural biocide, killing living organisms such as bacteria, super bugs and viruses, at low temperatures. It is also known to be a powerful oxidising agent that can also be used in the purification of water.



### Kinder to the Environment

The use of Ozone:

- Eliminates the need for high temperature washes
- Reduces the amount of chemicals used
- Reduces the amount of water used
- Reduces the amount of energy used
- Increases linen life
- Provides a healthier working environment

## GS Laundries and Total Laundry Care Services Ltd

GS Laundries together with Total Laundry Care Services Ltd are an independent commercial laundry service provider, based in South London.

We specialise in the total disinfection of all laundry and currently provide a full laundry service for local authorities, social services and domiciliary care units for the elderly, infirm and disabled.

### Cross Contamination Prevention

Cross contamination is a very real concern. GS Laundries and Total Laundry Care Services Ltd go to great lengths to control any kind of contamination, beginning with the collection of the Service User's laundry.

We have a fleet of plain coloured vans. A group of which are solely used for soiled collections and others for the disinfected clean laundry, With our remaining vans divided into separate sections, one section for soiled laundry and the other section for the disinfected clean laundry.

The dirty laundry is delivered to our laundry site via the back entrance.

All Service User's laundry is individually washed in the Ozonated wash cycle.

All used laundry bags are discarded with the environment in mind.

The laundry is then handled separately for the drying, preparation and labelling process.

The fully disinfected laundry is then loaded via the front entrance into the relevant vans ready for delivery.

# Kills Super Bugs, Bacteria & Viruses at Low Temperatures

The most widely known super bug is MRSA, which has many strains and preys on the weak, sick and elderly. MRSA stands for Methicillin-Resistant Staphylococcus Aureus. Any strain of Staphylococcus bacteria can be resistant to one or more conventional antibiotics, therefore prevention is better than cure. The number of reports of MRSA infections rises year by year and the latest evidence suggests that deaths due to MRSA are increasing at a similar rate.



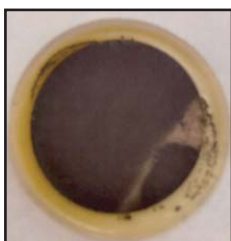
Another known super bug is Clostridium Difficile, a spore forming bacteria and is now recognised as the major cause of colitis (inflammation of the colon). These bacteria grow in the large bowel and can produce two toxins. In severe cases it can cause critical illness and death in elderly or very sick patients.

Exhaustive laboratory tests were performed by Microsearch Laboratories. Below are a sample of tests carried out on MRSA and Clostridium Difficile infected materials.

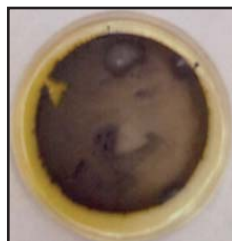
## MRSA Super Bug Test \*

A comparison was made on tests carried out on laundry contaminated with a strain of MRSA.

Two nurses uniforms had been implanted with a MRSA infected membrane before any laundry process had been carried out.



**Unwashed:**  
MRSA bug  
on Membrane



**Washed in a  
40°C cycle**  
Residual MRSA  
bug present



**Ozone Wash**  
No trace of the  
MRSA bug on  
the membrane

## Conclusion

As the illustrations show, there was no viable trace of the MRSA bug after the garment had undergone an Ozone wash cycle.

## Clostridium Difficile Super Bug Tests \*

An EU Suspension test was carried out of the Clostridium Difficile super bug.

Water containing Clostridium Difficile was held at a temperature of 75°C, for 15 minutes. It was found to have retained numerous Clostridium Difficile Spores.

Ozonated water containing Clostridium Difficile was held at a temperature of 40°C for 2½ minutes and no viable traces of any spores were found.

Microfibre mop heads used on hospital wards, underwent a similar test.

A mop head was washed using the Ozonated water and was found to be bug free.

However, another mop head was washed using the conventional thermal disinfection cycle and it was rife with Clostridium Difficile .

These and many other forms of bacteria are rife within our daily lives, this revolutionary type of laundry system can aid the elimination of these bugs in our linen. We need to act now to help control their spread.

\* All tests and results were carried out by Microsearch Laboratories on behalf of JLA Ltd.

\*\* NHS guidelines for thermal disinfection cycles allow for similar laundering at lower temperatures for shorter periods.

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