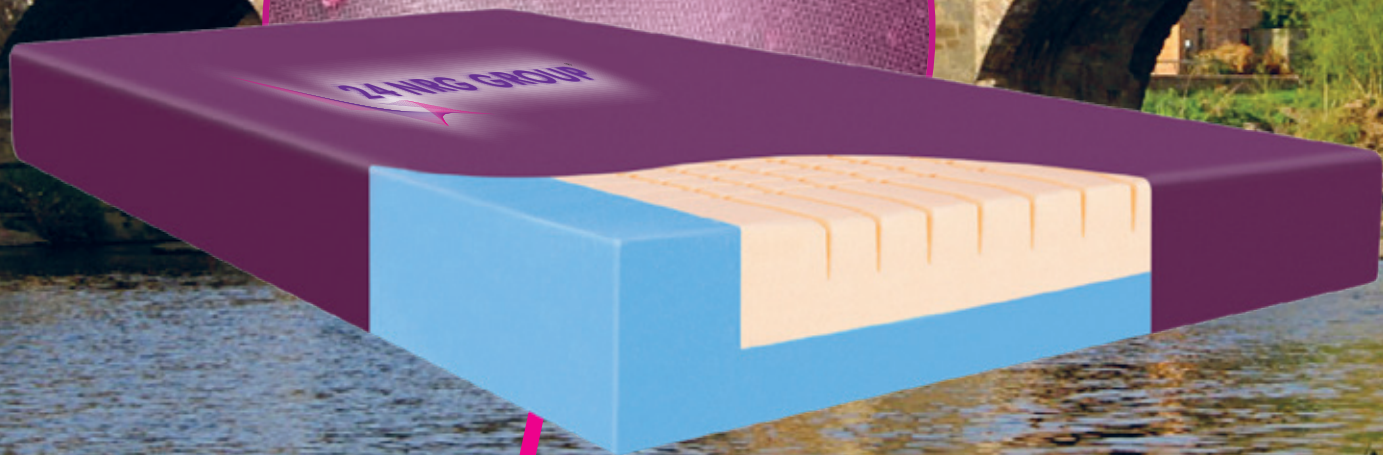
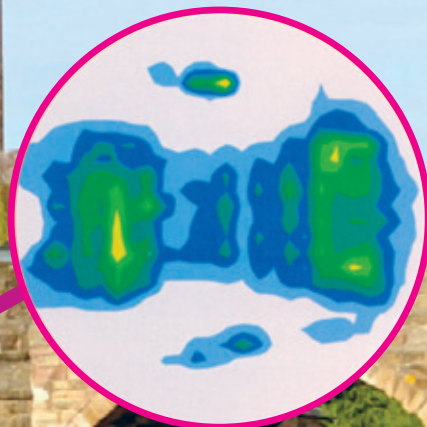


# 24 NRG GROUP<sup>®</sup>



HEREFORD  
PRESSURE  
REDUCING  
**STATIC  
RANGE**



[www.24nrggroup.com](http://www.24nrggroup.com)

**Tel: 08452 999 999**

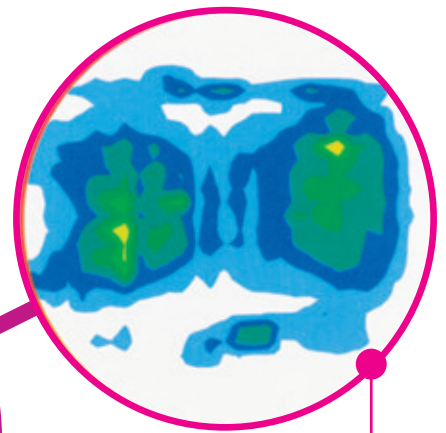
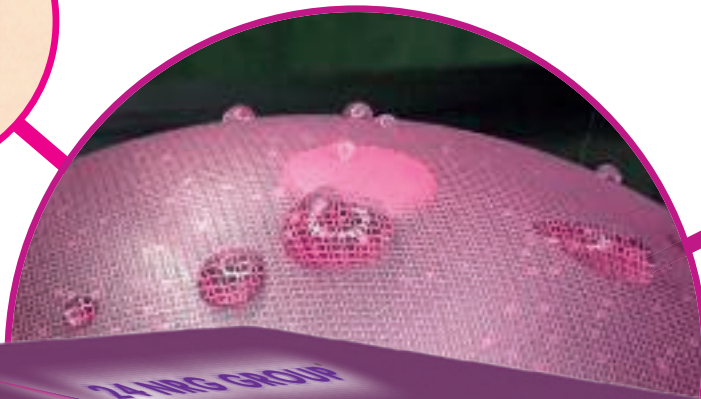
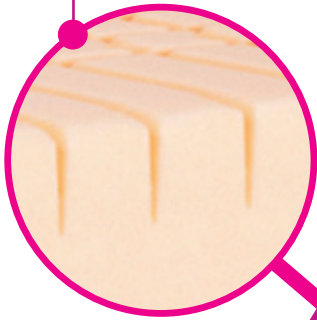
Email: [sales@24nrghealthcare.co.uk](mailto:sales@24nrghealthcare.co.uk)

24 NRG Group, Unit 2 Brockington Studio, Bodenham, Hereford, HR1 3HT

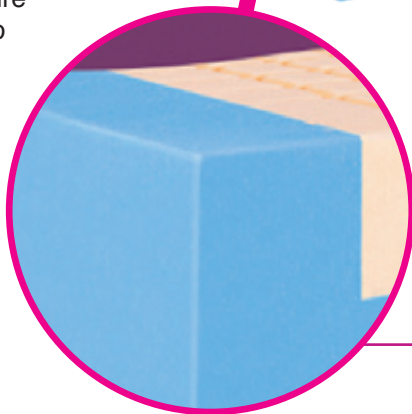
## 24 NRG BERRINGTON

The **24 NRG Berrington** pressure reducing mattress has been developed using the very latest Combustion Modified Ether (CME) foam technology. This high quality product features a castellated foam surface, which sits on a sturdy “U shaped foam base”.

The pressure reducing, castellated zones are shaped smaller at the head and foot ends in order to maximise pressure re-distribution in the most vulnerable areas. Larger castellations in the centre ensure the mainstream patient weight can be managed effectively. The castellations not only provide superior pressure relief and postural support but the channels cuts ensure that the mattress provides a constant airflow around the patient. This airflow assists in controlling temperature and therefore endeavours to improve comfort and the patients ability to sleep.



The UK manufactured, high frequency welded, vapour permeable and waterproof mattress covers will ensure all relevant compliance to even the strictest of infection control protocols. We also provide non-slip bases as standard on all of our welded covers.



The specialist design and use of multi-stretch material, enables the very best pressure re-distribution picture for most patient groups. Above is a true pressure map, relevant to the mattress design. Details of subject matter are available via your local Business Manager.

The high density foam base and walls offer total stability during side transfer procedures, to alternative seating systems or that of assisting stand transfer.



Features	Benefits
Multi-stretch, vapour permeable cover material	Aids infection control
Fully High Frequency welded product	Prevents fluid ingress
Fire retardant CME foam	Fully complies with British Standards
Castellated foam surface	Ensures total comfort is achieved, whilst delivering excellent pressure re-distribution
UK Manufactured product	Provides total confidence to user via exceptional quality and workmanship
Clinically proven	Giving peace of mind to nursing staff and patients alike

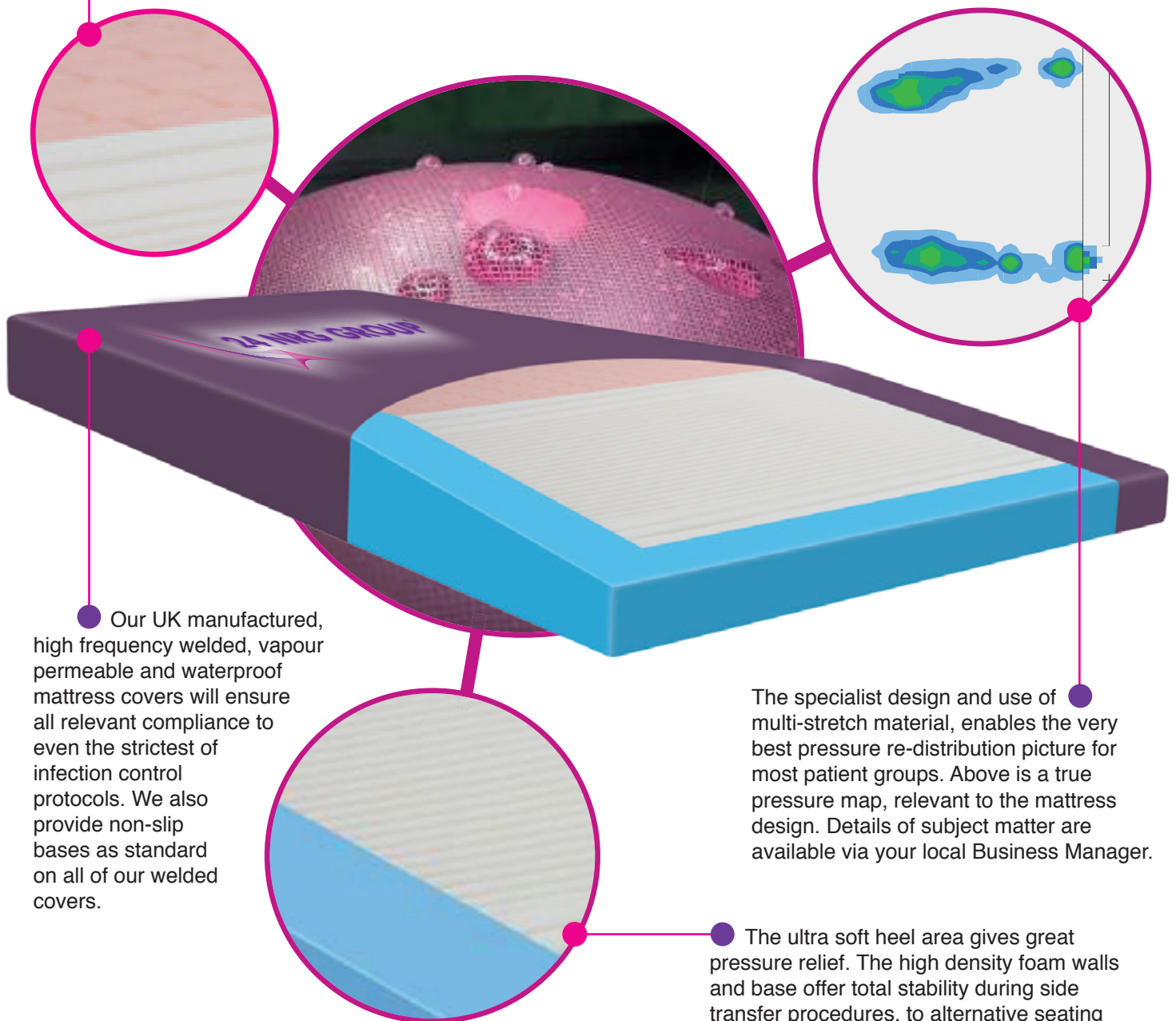
● Technical Information	
Product Code	24NRGBERRINGTON
Risk Factor	High Risk
Fatigue Class	Very Severe
Maximum Patient Weight	39 stone or 248 kgs
Mattress Dimensions	198cm x 88cm x 15cm (suitable for most hospital / homecare beds, although other sizes available upon request)
Mattress Weight	13.98 kgs
Foam Density	Insert: 38 – 40 kgs / m <sup>3</sup> CME Base 38 – 40 kgs / m <sup>3</sup>
Nominal Hardness	Castellated Insert: 110 – 130 N CME Base 185 – 210 N
Mattress Cover Coating	210 – 230 g (options available)
Fire Retardancy Standards	Exceeds minimum requirements of Crib 5 Composite testing (certification available upon request) BS7177
Warranty	5 years

If you require additional information, please telephone **08452 999 999**

## 24 NRG BERRINGTON-HEEL

The clinically proven **24 NRG Berrington-Heel** pressure reducing mattress, has been developed using the very latest combustion modified ether (CME) and visco elastic foam technology. This high quality product features a castellated foam surface with a very specialist heel management area.

The pressure reducing castellated central zone maximises re-distribution in the most vulnerable areas, so that the mainstream patient weight can be managed effectively. The castellations not only provide superior pressure management and postural support but it's channels are cut to ensure a constant air dispersion occurs around the patient. This process aids in controlling temperature when compared to standard mattresses and therefore endeavours to improve comfort and as such aids the patients ability to sleep well. The ultra soft heel section is sloped in order to reduce pressure, whilst an alternative cut (left to right) of visco elastic foam, provides maximum comfort levels. By gently tapering the heel area, pressure is redistributed effectively onto the less vulnerable calf area, thus providing outstanding results.



Our UK manufactured, high frequency welded, vapour permeable and waterproof mattress covers will ensure all relevant compliance to even the strictest of infection control protocols. We also provide non-slip bases as standard on all of our welded covers.

The specialist design and use of multi-stretch material, enables the very best pressure re-distribution picture for most patient groups. Above is a true pressure map, relevant to the mattress design. Details of subject matter are available via your local Business Manager.

The ultra soft heel area gives great pressure relief. The high density foam walls and base offer total stability during side transfer procedures, to alternative seating systems or that of assisting stand transfer.



Features	Benefits
Multi-stretch, vapour permeable cover material	Aids infection control
Fully High Frequency welded product	Prevents fluid ingress
Fire retardant CME and visco foams	Fully complies with British Standards
Castellated foam surface Special sloped heel area	Ensures total comfort is achieved, whilst delivering excellent pressure re-distribution on the heel area
UK Manufactured product	Provides total confidence to user via exceptional quality and workmanship
Clinically proven	Giving peace of mind to nursing staff and patients alike

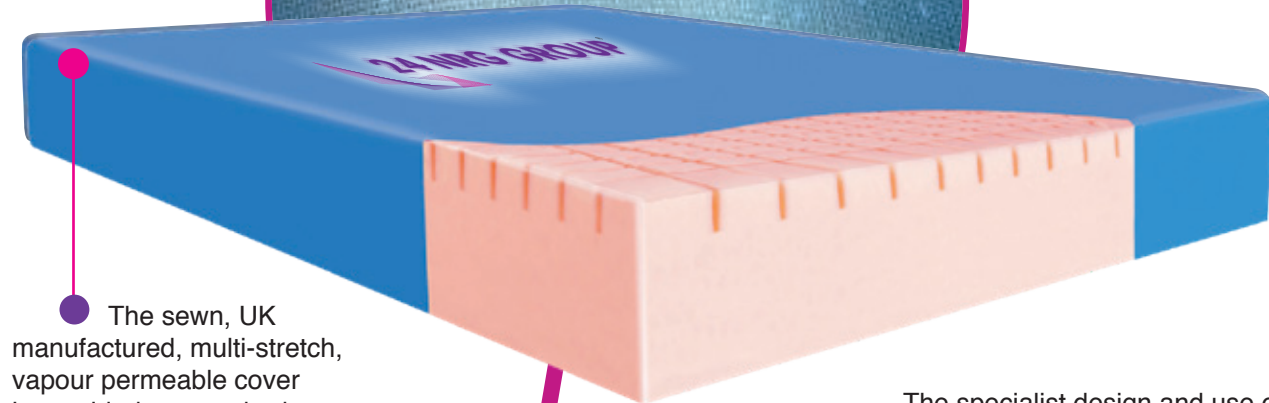
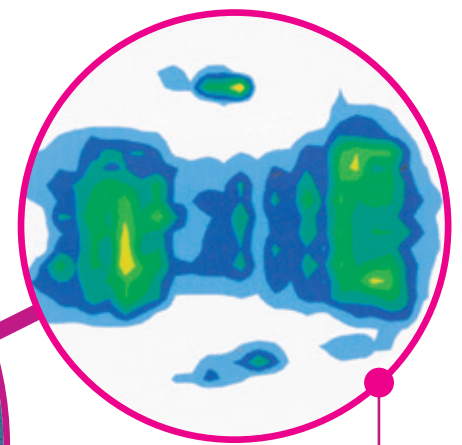
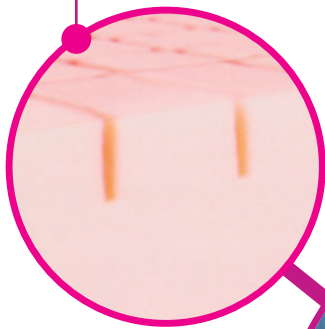
● Technical Information	
Product Code	24NRGBERRINGTON-HEEL
Risk Factor	High Risk
Fatigue Class	Very Severe
Maximum Patient Weight	39 stone or 248 kgs
Mattress Dimensions	198cm x 88cm x 15cm (suitable for most hospital / homecare beds, although other sizes available upon request)
Mattress Weight	13.88 kgs
Foam Density	Insert: 38 – 40 kgs / m <sup>3</sup> CME Base 38 – 40 kgs / m <sup>3</sup> , Visco-V60
Nominal Hardness	Castellated Insert: 110 – 130 N CME Base 185 – 210 N, Visco-Soft
Mattress Cover Coating	210 – 230 g (options available)
Fire Retardancy Standards	Exceeds minimum requirements of Crib 5 Composite testing (certification available upon request) BS7177
Warranty	5 years

If you require additional information,  
please telephone **08452 999 999**

# 24 NRG CROFT

The **24 NRG Croft** mattress provides excellent value for money for those on a tight budget. Naturally, one can rest easy, as the usual high standards apply and that comfort is always achieved without the need to compromise on pressure reducing abilities.

The high density, castellated, Combustion Modified Ether (CME) foam maintains exceptional comfort for the user, whilst delivering excellent pressure re-distribution and peace of mind for the care staff.



The sewn, UK manufactured, multi-stretch, vapour permeable cover is provided as standard, with an additional cost upgrade available to that of high frequency welded covers, as a premium product.

The specialist design and use of multi-stretch material, enables the very best pressure re-distribution picture for most patient groups. Above is a true pressure map, relevant to the mattress design. Details of subject matter are available via your local Business Manager.

The material fabric is of such a design that the stretch characteristics contribute towards the reduction of shear and friction forces, whilst assisting infection control protocols.



Features	Benefits
Multi-stretch, vapour permeable, sewn cover material	Aids infection control
Zip Flap cover	Reduces the risk of fluid ingress
Fire retardant CME foam	Fully complies with British Standards
Castellated foam surface	Ensures total comfort is achieved, whilst delivering excellent pressure re-distribution
UK Manufactured product	Provides total confidence to user via exceptional quality and workmanship
Clinically proven	Giving peace of mind to nursing staff and patients alike

● Technical Information	
Product Code	24NRGCROFT
Risk Factor	High Risk
Fatigue Class	Very Severe
Maximum Patient Weight	30 stone or 190 kgs
Mattress Dimensions	198cm x 88cm x 15cm (suitable for most hospital / homecare beds, although other sizes available upon request)
Mattress Weight	Approximately 13 kgs
Foam Density	CME Mattress Replacement: 36 – 38 kgs / m <sup>3</sup>
Nominal Hardness	Insert: 110 – 135 N
Mattress Cover Coating	210 g (options available)
Fire Retardancy Standards	Exceeds minimum requirements of Crib 5 Composite testing (certification available upon request) BS7177
Warranty	3 years foam, 3 years cover (extended warranties available)

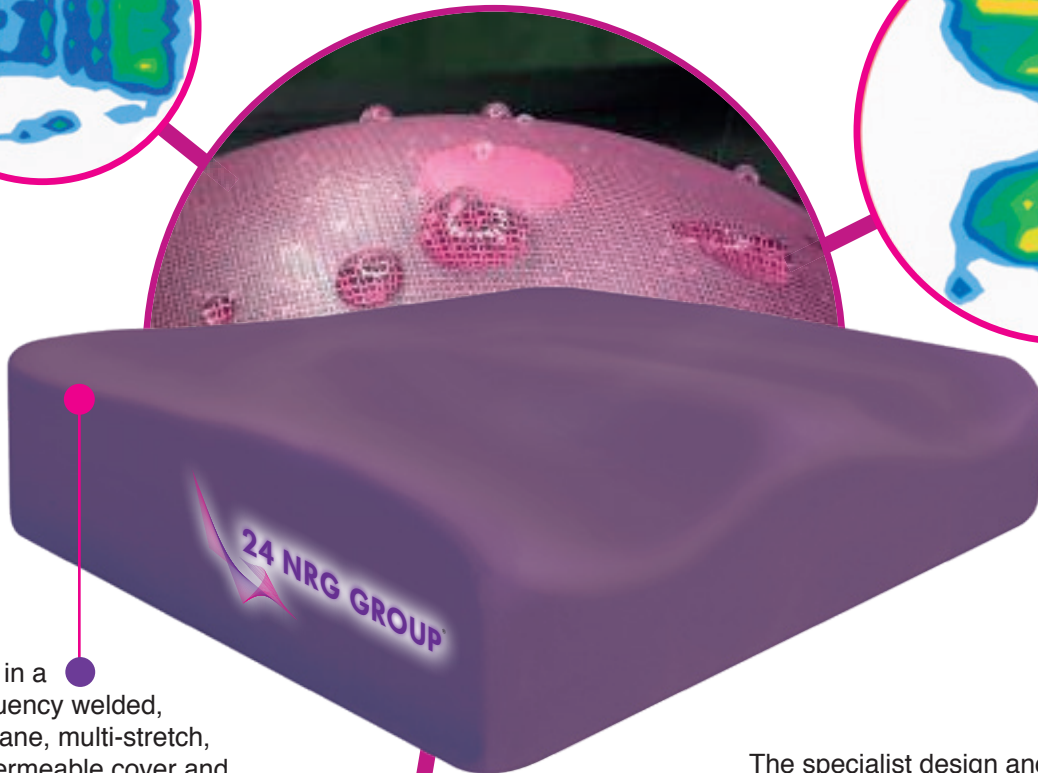
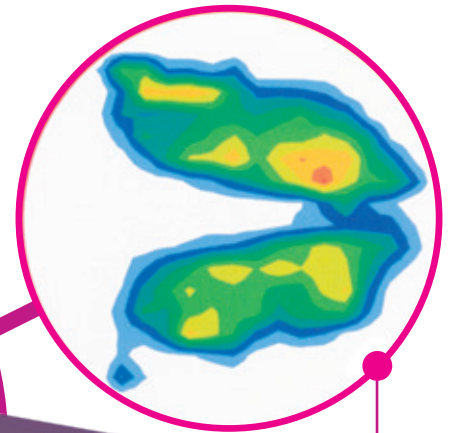
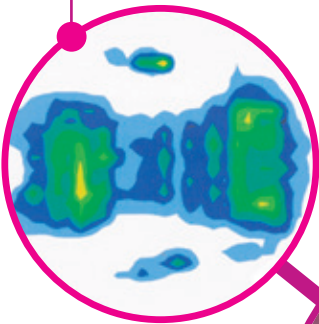
**NB:** Economy version of this product available - 24NRGCROFTECO

If you require additional information,  
please telephone **08452 999 999**

# 24 NRG BROCKHAMPTON

The **24 NRG Brockhampton** is the premium pressure reducing cushion within the entire seating range. Its slightly profiled appearance and visco elastic base, combined with a fluid type gel surface technology, provides outstanding pressure reduction, whilst offering cooling properties to the skins surface area.

The polyurethane gel surface encompasses cooling properties, which offer outstanding pressure re-distribution whilst aiding micro climate management.



Available in a high frequency welded, polyurethane, multi-stretch, vapour permeable cover and safe none-slip base as standard. However, a black "spacer" type material is available for use in wheelchairs as required.

The specialist design and use of multi-stretch material, enables the very best pressure re-distribution picture for most patient groups. Above is a true pressure map, relevant to the cushion design. Details of subject matter are available via your local Business Manager.

The material fabric is of such a design that the stretch characteristics contribute towards the reduction of shear and friction forces, whilst assisting infection control protocols.





Features	Benefits
Multi-stretch, vapour permeable cover material	Aids infection control
Fully High Frequency welded product	Prevents fluid ingress
Fire retardant	Fully complies with British Standards
Specialist Gel & Visco Elastic foam design combination	Ensures the very highest level of comfort and pressure re-distribution is achieved
Gel interface surface	Provides excellent cooling properties, whilst aiding skins micro climate
Various sizes available	Compatible with most standard seating systems
UK Manufactured product	Provides total confidence to user via exceptional quality and workmanship
Clinically proven	Giving peace of mind to nursing staff and patients alike

● Technical Information	
Product Code	24NRGBROCKHAMPTON
Risk Factor	High to Very High Risk
Fatigue Class	Very Severe
Maximum Patient Weight	26 stone or 165 kgs
Cushion Dimensions	17 x 17 x 3 (inches) or 43 x 43 x 7.5cm
Cushion Weight	Approximately 3.5 kgs
Foam Density	Visco Elastic Foam 80 kgs / m <sup>3</sup>
Gel Surface Type	Polyurethane
Cushion Cover Coating	210 – 230 g / 300 g base
Fire Retardancy Standards	Exceeds minimum requirements of Crib 5 Composite testing (certification available upon request) BS7177
Warranty	

**NB:** Alternative sizes or made to measure service is available upon request.

If you require additional information, please telephone **08452 999 999**

# MATERIAL FACTS

24 NRG Healthcare confirms that only the very finest raw materials are used throughout the stringent manufacturing processes. Only by using industry bodies and thorough testing protocols, can we ensure that the very best products are produced. The following information is provided as a brief insight to some of the best processes within the sector, available today.

All materials within the 24 NRG Healthcare range are fully abrasion tested. The machine operates in a circular motion on top of the fabric surface in order to monitor wear levels, in accordance with the relevant British Standards.



The tensile strength of materials is very important in terms of the overall general performance. However, in the instance of pressure reducing materials, the elasticity or stretch characteristics, which work with the skins surface are also critical. Here, the test machinery ensures that the fabrics exceed the standard requirements.

A high frequency welded cover envelopes the final product, which is available as standard. However, the hydrostatic head testing systems ensure that if the material is cared for in line with manufacturers guidelines, complete confidence is achieved throughout the products life cycle.



Aside from the base line cigarette and match fire retardancy requirements (which are standard for medical foam and covers), a more robust composite test applies – BS7177 for mattresses and BS7176 for cushions.

#### Various Test Methods Applied

BS EN ISO 845 : 2009 (ISO 845 : 2006)  
BS EN ISO 2430 : METHOD B 2008  
BS EN ISO 1798 : 2008  
BS EN ISO 1856 : 2001  
BS 3379 : 2005

## FOAM FACTS

Here are some interesting facts about 100% British manufactured medical grade foam. Foams today are made from a combination of rigorously tested chemicals, water and air. Visco elastic type foams (memory foam) for example, are made from a base of polyurethane, which is then mixed with a Toluene Diisocyanate (TDI), an organic compound. Once the relative chemicals are combined (CME, CMHR or Visco), a chemical reaction causes the liquids to expand, very like a loaf of bread baking in the oven.

All foams are produced in factories carrying the ISO 9001 Certified standard.

The “structure or feel” of the foam is achieved by the level of relevant densities and nominal hardness combinations. All of these properties are achieved by the ratio of chemicals and fluids used in each grade of foam. The introduction of specialist gases into the solution, allows the “cell structure” to develop (which looks like the inside of a loaf of bread). The addition of more gas means a more open cell structure and less gas, a less open cell structure etc. This cell structure will also determine how much heat and moisture can ‘breathe’ through the foam and the level of superior support the specially chosen grade of foam can offer.

Foam mattresses are the ideal solution for medical environments as foam is hypoallergenic, anti-bacterial and naturally both bed and dust mite resistant. It is this information that is clearly demonstrated in technical information, foam grade combinations and is stated alongside every 24 NRG Healthcare product.

### CME Vs CMHR Foams – What’s The Difference?

CME (Combustion Modified Ether) foam is becoming one of the most prevalent forms of foam available for both the medical and furniture industries. As such, this type of foam is rapidly being recognised for the advanced technology in manufacturing the foam and is fast replacing CMHR (Combustion Modified High Resilient) foam. CMHR foams are still available but it is manufactured using older technology, and as such is not produced in large quantities. Both foams are forms of combustion modified polyurethane based foam, which starts its life in liquid chemical format. Ask your suppliers for CME foams today or better still, feel rest assured that 24 NRG Healthcare provide only these types of advanced technology foams producing high quality products.

### Foam Fatigue Class Definitions

Often when people are explaining foam fatigue classifications, abbreviations are quickly adopted by company representatives or foam “experts”. At 24 NRG Healthcare, we would like to simplify the process and take time to show you what the abbreviations mean as shown below:

● L – Light   ● A – Average   ● S – Severe   ● V – Very Severe   ● X – Extremely Severe

Examples in the real world taken from the definitions above are those such as light (L) or average (A), would equate to that of occasional use, such as a patio furniture cushion. The opposite extreme or (X) Extremely Severe, would be used in items such as a rigid prison mattress, requiring extreme longevity and excessive fire retardancy (although this is another category of understanding).

Mattress or cushion bottoming can occur when the incorrect foam densities, nominal hardness or fatigue classification combinations are incorrectly prescribed.

We can help make these decisions for you, by promising the very best quality and foam combinations available.

24 NRG Healthcare will only use Severe as an absolute minimum, in lower cost option products and Very Severe in premium products as standard, producing the very best quality and longevity.

24 NRG Healthcare has an array of products, available to suit most clinical conditions and risk categories. The higher specification systems on offer are clinically evaluated, against some of the most complex wound situations that Clinicians have to face on a daily basis. Although these products are offered as a guide, clinical judgement must be used at all times.