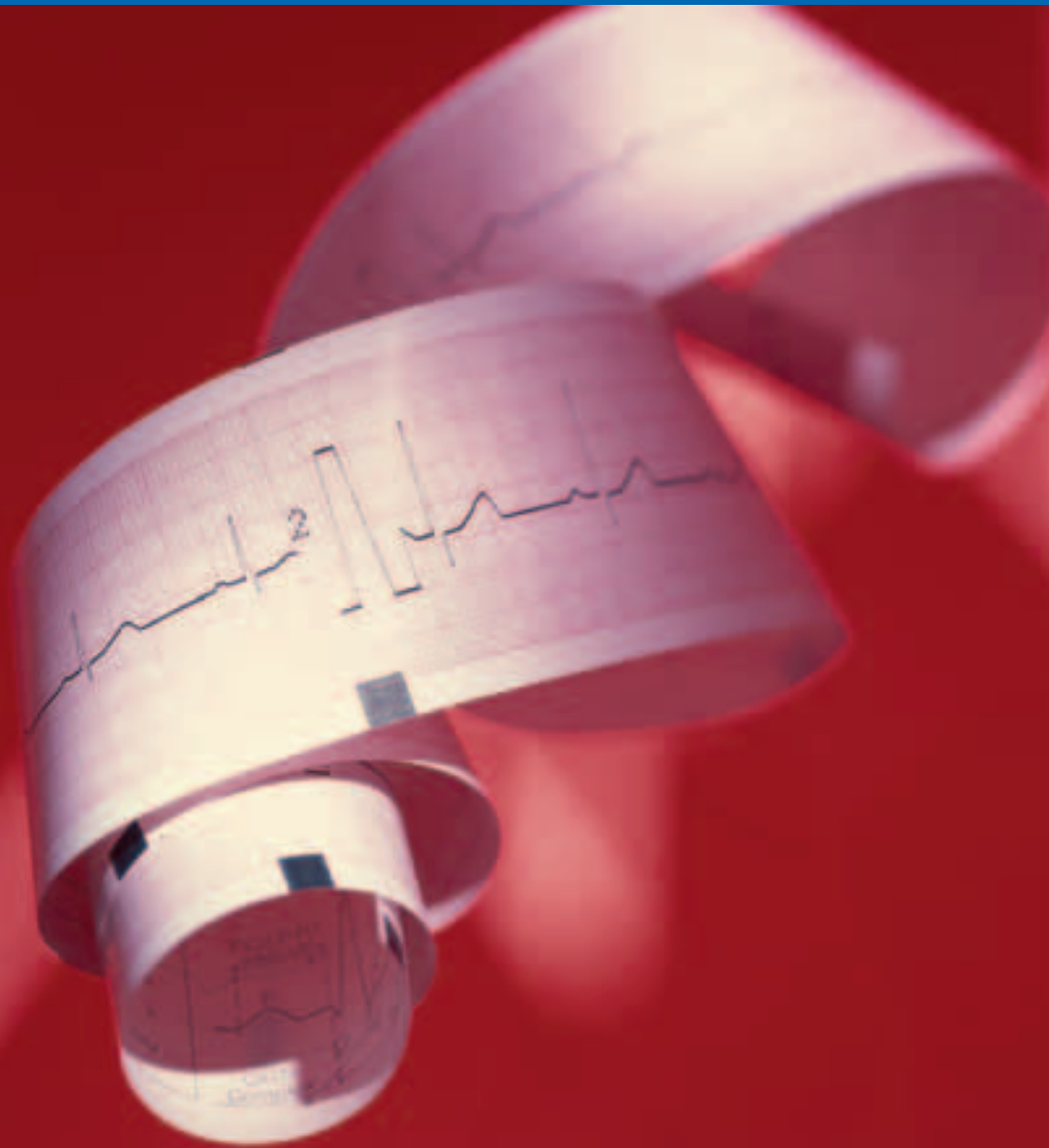


Innovation for daily life | **Medical**

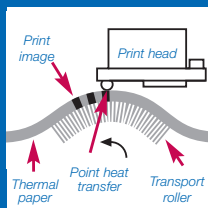



thermoscript



Medical

- > *Modern technology*
- > *The best*
- > *Competence*
- > *Grades*
- > *Contact*
- > *Sales offices*



Modern technology needs high-tech paper

Absolute precision is vital in medicine. Whether it's the results of a blood test, ECG or ultrasound, the data and images are the most important factor in the diagnosis and determine the nature of treatment. A long-lasting and accurate record of the data acquired is therefore indispensable.

Mitsubishi HiTec Paper produces high-quality paper for medical and laboratory use. Grades of paper that satisfy the tough requirements for reproducing test results accurately and durably are developed in close collaboration with customers.

But it is not just in medicine that thermal papers made by Mitsubishi HiTec Paper are used. Their special paper is in great demand wherever precious data have to be acquired, recorded and documented. The entire air-conditioning sector is a good example of this, not to mention instrumentation and control. The excellent reliability and outstanding cost-benefit ratio of direct thermal technology guarantee that thermal paper will be preferred in such areas.



The best is just good enough

It's not just in medicine but in every area of our high-tech world that we rely on data acquisition and analysis. Without sensitive instruments, intensive care medicine, for example, would be inconceivable.

The requirements for medical and technical graph paper are very strict.

thermoscript papers are convincing due to

- > extreme durability and stability
- > immaculate print head behaviour (no fouling of the print head)
- > excellent printing results and therefore accurate data reproduction
- > suitability for high-speed printers

Durability and stability

In the world of medicine diagnosis is reliant on test data, with doctors deciding on treatment on the basis of certain results. The data acquired therefore represent an important record for doctors and health care professionals providing treatment at a later date. They provide a basis and corroboration for decisions made by the attending doctor. Some records, such as those for antenatal diagnostics, for example, therefore have to be kept until the patient comes of age. Only what are known as antifade papers, where the print image remains legible after such a long time, can be used for such purposes. *thermoscript* grades from Mitsubishi HiTec Paper, such as P 5037, for example, last for up to 25 years and are extremely stable. They are therefore the papers of choice in the medical sector.

“Thermal papers are a significant diagnostic tool in high-tech medicine and the special importance of printout durability in this particular area is readily understandable.”

*Dr Bernd Gerecht
General Manager
Marketing & Strategy
Mitsubishi HiTec Paper
Flensburg GmbH*



“Print head problems are eliminated with *thermoscript* products. This is a superb demonstration of our development capacity and the experience gained from many years of cooperation with Mitsubishi Paper Mills.”

*Dr Wolfgang Wagner
General Manager Technology
Mitsubishi HiTec Paper
Flensburg GmbH*

Immaculate print head behaviour

Fouling of the print head prevents the perfect energy transfer needed to produce an exact print image. In extreme cases such fouling can cause individual live elements to burn out or the entire printer to be damaged. That sort of thing just can't happen when it comes to intensive care medicine in particular. Perfectly balanced formulations guarantee immaculate print head behaviour. *thermoscript* products do not foul the print head.

Excellent printing results

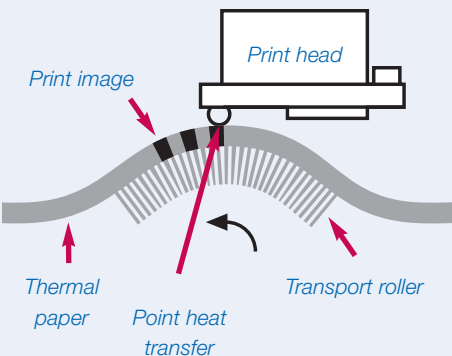
Thanks to their smooth surface, *thermoscript* products guarantee good, even printing results. This is particularly important in the medical and laboratory sectors, where the finest nuances have to be taken into account.

Suitability for high-speed printers

The results of medical tests are needed quickly, sometimes in fractions of a second. The printers used in this sector are correspondingly fast. Mitsubishi HiTec Paper has developed *thermoscript* papers specially for use in high-speed thermal printers.



– the brand for an excellent thermal print image



Competence in printing

Thermal printing

In thermal printing, the thermal energy generated by a large number of small heating elements produces a colour reaction, and with it the print image, on the special coated paper.

Thermal printing processes offer crucial advantages over other printing techniques:

- > silent
- > reliable
- > low running costs (low maintenance and energy saving)
- > no other consumables such as toner, ink, etc.
- > easy to use
- > no solvents
- > compact printer, so ideal for portable hand-held equipment

Products for high standards

Mitsubishi supplies the widest range of thermal papers worldwide. The following products are particularly suitable for medical and laboratory use.

Grade	Description	Base Weight
F 5041	Fax and printer grade with standard sensitivity. Normal stability against environmental influences such as heat, humidity, light, lanolin, ethanol, plasticizer and water.	55 g/m ²
F 5051	Fax and printer grade with high sensitivity. Normal stability against environmental influences such as heat, humidity, light, lanolin, ethanol, plasticizer and water.	56 g/m ²
P 5037	Printer grade with standard sensitivity. Excellent UV-offset and flexographic printability of thermal coating. Good stability against environmental influences such as heat, humidity, light, lanolin, ethanol, plasticizer and water. 25 years durability of thermally printed image (specific handling and storage conditions to be observed).	57 g/m ²
P 5027	Printer grade with low sensitivity. High heat resistance. Enhanced stability against environmental influences, such as heat, humidity, light, lanolin, ethanol, plasticizer and water.	55 g/m ²
P 6042	Printer grade with standard sensitivity. Normal stability against environmental influences such as heat, humidity, light, lanolin, ethanol, plasticizer and water.	58 g/m ²
T 7045	Printer grade with standard sensitivity. Good resistance to environmental influences, e.g. heat, moisture, light, lanolin, alcohol, plasticisers, water, etc.	69 g/m ²
T 7051	Ticket grade with high sensitivity. Normal stability against environmental influences such as heat, humidity, light, lanolin, ethanol, plasticizer and water.	73 g/m ²
T 8051	Ticket grade with high sensitivity. Normal stability against environmental influences such as heat, humidity, light, lanolin, ethanol, plasticizer and water.	81 g/m ²



Products for high standards

Our versatile spectrum of thermoscript standard products is supplemented with various specialities. We use the modular design principle to develop individual solutions for each area of application.

You will find detailed information on characteristic and physical properties, as well as climatic and chemical stability, in our technical datasheets. Our sales department will be happy to send you them on request.

Talk to us

Our customers make demands on us. They don't want standard products, but individual solutions.

The R&D department, Sales and Marketing, engineers, and paper makers work together at Mitsubishi HiTec Paper Flensburg to develop the right paper for each application.

Mitsubishi HiTec Paper Flensburg stands for worldwide service and top quality. Long-standing business relationships with customers all over the world show that Mitsubishi HiTec Paper Flensburg is on the right track.

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... all over the world.

Being an internationally active company, Mitsubishi HiTec Paper Flensburg GmbH is present all over the world.

More details about our agencies are available at:

www.thermoscript.de







Thermal papers for

- > Fax/POS
- > Label
- > Entertainment
- > Transport
- > Gaming
- > Banking
- > Medical



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