



## TESTAF

Technischer Standard  
Fliegeruhren



MODEL SERIES 103 Ti TESTAF



*Sinn*


SPEZIALUHREN ZU FRANKFURT AM MAIN





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## DEAR CUSTOMER,

We know from numerous conversations that the people who buy our watches do so out of conviction. This includes people with a pronounced affinity to technology who are fascinated, for example, by the solutions we have devised for protection from magnetic fields and scratch resistance. Some of our customers, such as divers, pilots and the German GSG 9 special police unit, rely on their watches in their respective careers because their lives depends on it.

They all swear by the performance, resilience and durability, as well as the quality and precision of our watches. That is why Hamburg-based Germanischer Lloyd regularly tests and certifies the water and pressure resistance of our diving watches.

We have selected pilot's watches tested and certified to the Technical Standard for Pilot's Watches (TESTAF) by Aachen University of Applied Sciences. The TESTAF ensures that a pilot's watch meets all timekeeping requirements during flight operations in accordance with visual and instrumental flight regulations and is suitable for professional use. Functionality is our top priority and ultimately determines the design. Only the technical features that are really needed can be found on our watches. Because we believe that products have to speak for themselves.

The basic question that we ask ourselves is: which innovative technologies and materials can be employed for our craft and provide solutions for rendering our watches even more practical for everyday use? It is often worth indulging in a little lateral thinking to see what is going on in other industrial sectors or fields of science. We repeatedly go to the limits of physical resources to upgrade our watches – with the aim of making what's good even better. Most of our best developments are yet to come!

I am delighted that you have decided to buy a SINN timepiece and hope that it will continue to give you pleasure for many years to come.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'L. Schmidt', with a stylized flourish at the end.

Lothar Schmidt

## FOREWORD AACHEN UNIVERSITY OF APPLIED SCIENCES DEPARTMENT OF AEROSPACE TECHNOLOGY



Aviation, in all its forms, combines emotion and technical excellence like almost no other mode of transport. It's not just pilots who have always demonstrated their connection to flying by wearing a special timepiece – the pilot's watch.

In the early days of aviation, the pilot's watch was one of the primary navigation instruments alongside the aviation map and a compass. Charles Lindberg would rather have gone without a radio than a second timepiece on his legendary transatlantic flight. To this day, most flight procedures in instrument flying carry a corresponding time stamp.

"Pilot's watch" is however not a protected term. It is often used for purely design-oriented models, which hardly do justice to the technical requirements for a flight instrument. It was therefore natural for the Department of Aeronautics and Astronautics at the Aachen University of Applied Sciences, as one of the leading educational and research facilities for aviation, to take on the development of a test standard based on the official certification procedure for general aviation. A considerable

number of pilots, airline companies and engineers were involved in creating the requirements and the development of the extensive test procedures.

TESTAF, the technical standard for the pilot's watch, was officially presented to the public in the autumn of 2012, in the deliveries hangar of the Eurocopter company in Donauwörth. The advisory board set up for this purpose, consisting of recognised experts in aviation and the watch industry, will ensure the future continuous updating and technical advancement of the contents and test procedures.

The team at SINN, led by Lothar Schmidt, of course immediately took on this challenge and met all requirements with flying colours after an intensive development phase. You hold the result in your hands today, the TESTAF-certified pilot's watch – a very special timepiece.

Sincerely

A handwritten signature in black ink, appearing to read 'Janser', with a large, stylized flourish above it.

Prof. Dr.-Ing. Frank Janser

## SINN SPEZIALUHREN ZU FRANKFURT AM MAIN

It was back in 1961 that pilot and blind-flying instructor Helmut Sinn founded the company. Since then, we have been committed to producing high-specification mechanical watches. In 1994, the graduate engineer Lothar Schmidt took over the company. This marked the beginning of a new era for the SINN brand, because the new owner took a decisive step towards more innovation. Under his leadership, new technologies and materials were introduced, thus providing the crucial incentives for our company's evolution and gradual emergence as an insider's tip for lovers of fine watches. Today, our name stands for technical innovations – much to the delight of both the trade and our customers alike.





## Advancements in endurance testing

Take, for example, the absolutely condensation-free, anti-reflective, german submarine steel diving watch – made possible by HYDRO technology. Other examples include a chronometer chronograph fashioned from a 22-carat gold alloy that is as hard as stainless steel and a chronometer with a magnetic resistance 20 times the standard. There are also watches with a clockwork mechanism optimally protected from aging by an inert gas and integrated dehumidifying capsule. The list would not be complete without mentioning the development of mission timers (Einsatzzeitmesser or EZM in German) for special police units and border patrol guards as well as temperature resistance technology to keep mechanical watches performing at temperatures ranging from  $-45^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ . This technology has proven its worth in the EZM 10 TESTAF model, for example, used as part of the official approvals procedure for Eurocopter's EC 145 T2 high-performance helicopter. Hot and cold climate tests and high-altitude experiments were carried out in the deserts of the USA, the Rocky Mountains and the frozen wastes of Canada. The watch was worn unprotected, outside the pilot's overall, during cold climate tests at temperatures reaching  $-45^{\circ}\text{C}$ .



## **Innovations and certifications**

Our diving watches are made of submarine steel, such as that used to construct the outer hulls of the German Type 212A submarine class, continuously pass these tests for temperature resistance and function. Germanischer Lloyd, the world's largest classification society for maritime safety, has been testing our diving watches for pressure and water resistance since 2005. As part of Germanischer Lloyd's official certification process, our diving watches have been treated as part of diving equipment since 2006 and tested and certified in accordance with European diving equipment standards. This is unparalleled in the watch industry.

We have had selected pilot's watches tested and certified to the Technical Standard for Pilot's Watches (TESTAF) by Aachen University of Applied Sciences since 2012. The TESTAF, the result of a research project at the initiative of Sinn Spezialuhren, ensures that a pilot's watch meets all timekeeping requirements during flight operations in accordance with visual and instrumental flight regulations and is suitable for professional use.

DIAPAL is one of our most important technological developments, with oiling no longer needed for the most important functions in the watch thanks to the materials we select. This technology was first used in 2001. With the aid of TEGIMENT technology, we achieve greatly increased scratch resistance through surface hardening.

## Ongoing advancement in technology and quality

Our top priority has always been to develop watches that offer superior performance – both in daily and in professional use. Which is why our engineers are working continually to identify which innovative methods, materials and technologies are best suited for optimising our watches. Each new development has to first undergo rigorous practical tests before being incorporated. And no watch leaves our workshops before it has been subjected to thorough checking and fine adjustment by our master watchmakers.

## Workshop modifications and hand-engraving

From the robust case and the polished crystal through to elaborate refinements: we make sure that each and every detail of our watches is fit for purpose. The same applies to our workshop modifications. Only the perfect interaction of all components and technologies ensures that our watches can meet all their design specifications in full. Take for example the SZ02 calibre of our U1000 diving chronograph. The 60-minute scale of the stopwatch minute counter is much simpler and more intuitive to read than the 30-minute scale commonly found on other watches. The hand-engraving represents a highly personal form of refinement. If required, our specially trained master engraver can etch a name, initials, monograms or symbols onto the rotor, movement bridge and case back.



## THE WORLD'S FIRST, TESTAF-CERTIFIED TIMEPIECE



### TESTAF

Technischer Standard  
Fliegeruhren

**In a research project lasting four years, the Faculty of Aerospace Technology of the Aachen University of Applied Sciences (FH) and Sinn Spezialuhren have developed a technical standard for pilots' watches (TESTAF). TESTAF ensures that a pilot's watch meets all of the time measurement requirements for flights operated under both visual flight rules (VFR) and instrumental flight rules (IFR). The EZM 10 TESTAF, the 103 Ti TESTAF, 103 Ti UTC TESTAF and the 857 UTC TESTAF were the first SINN watches to undergo and pass the strict test procedures.**

For these watches to meet all the test criteria, we had to make various adjustments to them. The watches then passed all of the tests with flying colours. This means that they are suitable for professional use as a pilot's watch – a fact that is documented by a certificate and the TESTAF seal of quality on the face of the watch.

What are the distinguishing features of a professional pilot's watch? To provide a universally valid answer to this question, it was necessary to formulate a norm or standard, which did not exist for pilots' watches until today. And so in 2008, engineer Lothar Schmidt, managing director and owner of Sinn Spezialuhren, took the initiative to close this research gap together with engineering professor Frank Janser of the Aachen University of Applied Sciences.

TESTAF now provides the answers. For example, a pilot's watch must withstand rapid temperature changes and changes in ambient pressure up to 0.044 bar – equivalent to an altitude of about 21,300 metres. A pilot's watch is thus subjected to several thousand pressure change cycles in order to simulate the actual stress conditions on a pilot's wrist. Besides being water-resistant, the watch must also be resistant to common aviation fluids such as fuels, hydraulic fluids and cleaning and de-icing agents. It is also important that the magnetic field of the pilot's watch itself does not interfere with the avionics such as the aircraft's emergency compass. It may not dazzle the pilot or produce unnecessary reflections. The watch must also be resistant to shocks and vibrations and be perfectly readable in the dark.

The list of technical and functional specifications describe precisely and unambiguously the time measurement requirements during flight in the following categories.

### **1. Functionality**

- Required functions during flights operating under visual and instrument flight rules
- Readability in daylight and in darkness
- Good operability
- Accuracy and power reserve

### **2. Resistance to external stress**

- Absolute and cyclical ambient pressure changes
- Operative temperature range and rapid temperature change
- Shock and impact resistance, G-forces and vibration
- Resistance to water and other aviation fluids
- Effects of magnetic fields on the watch

### **3. Safety and compatibility with other instruments**

- Effects of the watch's magnetic signature on avionics
- Avoidance of reflections and dazzle
- Appropriate form
- Secure strap fastening

**A description and photos of the tests can be found at [www.testaf.org](http://www.testaf.org).**



Differential pressure test: The EZM 10 must withstand alternating ambient pressure levels.



Dynamic G-force test on the 103 Ti Ar.



A pilot's watch such as the EZM 10 must have no magnetic influence on the emergency compass.





## MODEL SERIES 103 Ti TESTAF

**The 103 Ti TESTAF and the 103 Ti UTC TESTAF have been tested and certified according to the technical standard for pilot watches (Technische Standard Fliegeruhren, TESTAF) by Aachen University of Applied Sciences. This is documented by a certificate and the TESTAF quality seal on the dial.**

The certification confirms that both watches fulfil the requirements for time measurement during flight and according to visual flight rules (VFR) and instrumental flight rules (IFR), and that they are suitable for professional use as pilot watches. They therefore function as an additional safety system, allowing the planning and implementation of necessary flight manoeuvres with the help of a pilot watch. For example, both watches offer guaranteed perfect readability of stopped times (seconds and minutes), even by night, thus fulfilling an essential condition for IFR certification.

The safety concept is rounded off with Ar-Dehumidifying Technology for increased functional reliability and freedom from fogging, as well as functional reliability at temperatures ranging from  $-45^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ . The 103 Ti UTC TESTAF provides an additional time measurement element in the form of a second time zone on a 12-hour basis.



**TESTAF®**  
Technischer Standard  
Fliegerfluren



## Zertifikat

Wir bestätigen hiermit und bescheinigen, dass die im Folgenden genannten Daten die Bestätigung gemäß dem Technischen Standard Fliegerfluren (TESTAF) Version 01 (2013) darstellen:

Hersteller:	Siem
Herstellbezeichnung der Ufer:	103 Ti UTC TESTAF
Herstellernummer/Name:	103 20001 bis 103 20009
Herstellertyp/Code:	Lufteinlassrand Hauptabflurung Stützabflurung

Die Zertifizierung erfolgt gemäß Abschnitt 3.1.1 des TESTAF für Höhe nach:

Höhenlage:	0
Druckmesshöhe/Segege:	0

und gemäß Abschnitt 3.2.2 des TESTAF für den Temperaturbereich:

Temperaturbereich:	von -13° C bis +39° C
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Die Herstellerbezeichnung des Herstellers und/oder Zulieferers zum Bestehen der Bestätigung des Abschnitts 3.2.3 des TESTAF liegt dem Prüfer vor:

Die Gültigkeit dieses Zertifikats für die betrieblichen Daten aus dem oben genannten Seriennummernfeld ist an die Zustimmung des Herstellers gebunden, dass jede in den Herstellerangaben und die Anforderungen der Fliegerfluren (vom Hersteller durchzuführen) gemäß der folgenden Abschnitte des TESTAF erfüllt:

3.1.5	Stützabflurung
3.1.6	Stützabflurung
3.1.7	Stützabflurung

Diese Zustimmung, die mit der Angabe von Ort, Datum und der Unterschrift eines verantwortlichen Mitarbeiters des Herstellers verbunden ist, liegt dem Prüfer vor:

Durch die Erfüllung der Anforderungen des TESTAF wird bestätigt, dass die hier genannten Daten für den professionellen Einsatz als Fliegerfluren geeignet sind. Für die langfristige Nutzung wird die Einhaltung der vom Hersteller angegebenen Serviceintervalle, sowie regelmäßige Überprüfung von Stützabflurung, Höhenlage und Wasserdrift durch eine Sicht- und Fortschrittsprüfung empfohlen.

Datum, das 04 März 2013

  
Dr.-Ing. Frank Heinen

The certificate confirms that the 103 Ti UTC TESTAF has successfully passed the TESTAF test.



**TESTAF®**  
Technischer Standard  
Fliegerufen



## Zertifikat

Es dieses Zertifikat wird bescheinigt, dass die im folgenden genannten Uhren der Überwachung gemäß dem Technischen Standard Fliegerufen (TESTAF), Version 01 (2012) bestanden haben:

Hersteller	Dino
Modellbezeichnung der Uhr	103 Ti TESTAF
Serialnummer(n)	123 30000 bis 100 20000
Arbeitsfrequenz	Zellenstrahl Hauptfrequenz Stromverbrauch

Die Zeitführung erfolgt gemäß Abschnitt 3.1.1 des TESTAF für Fluge nach  
Schiffungen   
Instrumentenfluglagen

und gemäß Abschnitt 3.1.2 des TESTAF  
für den Temperaturbereich  von -10° C bis +50° C.

Die Konformitätsprüfung des Herstellers und/oder Zulieferers zum Bestehen der Überwachung des Abschnitts 3.1.3 des TESTAF liegt dem Prüfablauf vor.

Die Gültigkeit dieses Zertifikats für die anderen Uhren aus dem oder genannten Seriennummernbereich ist an die Zustimmung des Herstellers gebunden, dass jede in der Regel gelieferte Uhr die Anforderungen der Empfehlungen (zum Hersteller zuzurechnen) gemäß der folgenden Abschnitte des TESTAF erfüllt:

3.1.1	Singenauigkeit
3.1.2	Temperatur
3.1.3	Wechselstrom

Dieses Zertifikat, das von der Angabe von GPS, Datum und der Unterschrift eines vom Hersteller autorisierten Sachverständigen versehen ist, liegt dem Prüfablauf vor.

Durch die Erfüllung der Anforderungen des TESTAF wird bescheinigt, dass die Uhr geeignet ist für den zivildienstlichen Einsatz an Fliegerufen geeignet sind. Für die angelegte Nutzung wird die Einhaltung der vom Hersteller angegebenen Serviceintervalle, eine regelmäßige Überprüfung von Synchronisation, Temperatur und Stromverbrauch sowie eine Sicht- und Funktionsprüfung empfohlen.

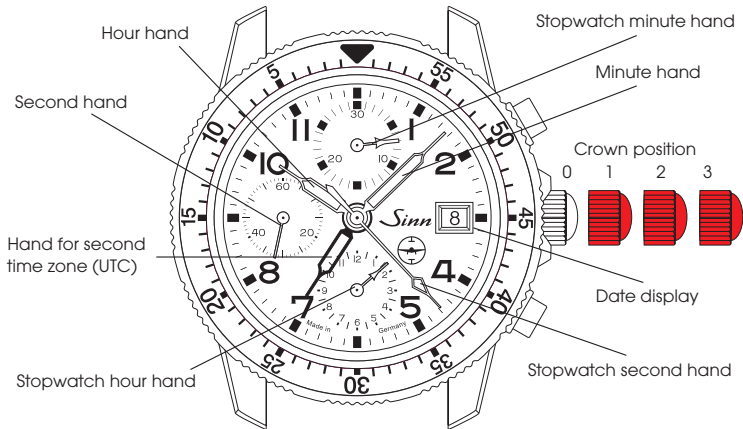
Aachen, den 04. März 2013

  
Prof. Dr.-Ing. Frank Jensen

The certificate confirms that the 103 Ti TESTAF has successfully passed the TESTAF test.

# INSTRUCTIONS FOR USE

Model: 103 Ti UTC TESTAF



## Winding the watch (crown position 1)

The crown is screwable (crown position 0). To loosen the crown, turn it *counter-clockwise*. The movement is wound by turning the crown *clockwise*. About 40 winds of the crown are generally enough to ensure reliable functionality. Under normal circumstances, simply wearing the watch every day should suffice to keep the self-winding mechanism wound. The power reserve allows you to take off your watch overnight without having to re-wind it.

### **Time adjustment (crown position 3)**

In crown position 3, the motion is paused. This helps you to set the watch precisely. To set the time accurately, we recommend moving the hand past the desired minute marker and then adjusting it counter-clockwise. Please make sure that the date changes at midnight and not at midday when adjusting the time. Move the hand forward until the date changes before you attempt to set the time. The movement restarts as soon as the crown is no longer in position 3.

### **Quickset date adjustment (crown position 2)**

**Do not use this function between 9 p.m. and 3 a.m.** Set the crown in position 2 and turn it *clockwise* until the correct date appears in the date display window. **Please do not use the date-setting function between 9 p.m. and 3 a.m.** Between these times, the gear wheels used for changing the date are engaged, and the movement could be damaged.

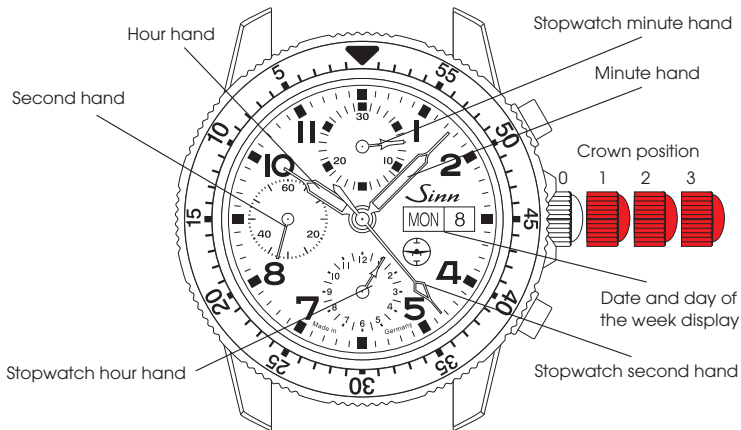
### **Time adjustment of the second time zone (crown position 2)**

Pull the crown into position 2 and turn it *counter clockwise* until the correct time appears. The UTC hand stops at hourly intervals. This setting may be adjusted between 9 p.m. and 3 a.m., but it is important to ensure that you are really setting the second time zone in this period by turning the crown counter clockwise! Otherwise the watch could be damaged!

**Please take care to fasten the crown after making adjustments.**

# INSTRUCTIONS FOR USE

Model: 103 Ti TESTAF



## Winding the watch (crown position 1)

The crown is screwable (crown position 0). To loosen the crown, turn it *counter-clockwise*. The movement is wound by turning the crown *clockwise*. About 40 winds of the crown are generally enough to ensure reliable functionality. Under normal circumstances, simply wearing the watch every day should suffice to keep the self-winding mechanism wound. The power reserve allows you to take off your watch overnight without having to re-wind it.

### **Time adjustment (crown position 3)**

In crown position 3, the motion is paused. This helps you to set the watch precisely. To set the time accurately, we recommend moving the hand past the desired minute marker and then adjusting it *counter-clockwise*. Please make sure that the date changes at midnight and not at midday when adjusting the time. Move the hand forward until the date changes before you attempt to set the time. The movement restarts as soon as the crown is no longer in position 3.

### **Quickset date and day of the week adjustment of the week (crown position 2)**

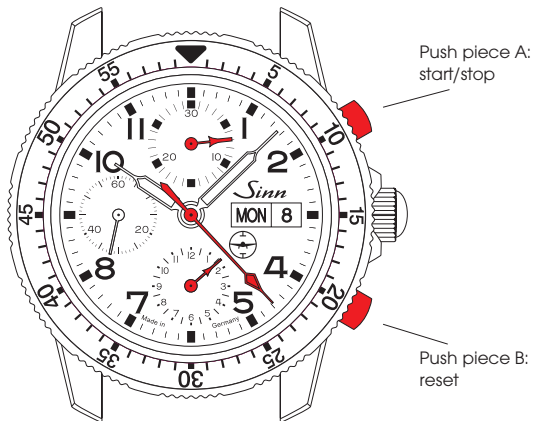
**Do not use this function between 9 p.m. and 3 a.m.** Crown position 2 can be used to change the date and day of the week quickly and simply. To set the date, pull the crown to the second position and turn it *clockwise* until the current date appears in the display window. To set the day of the week, turn the crown *counter-clockwise* until the desired day of the week is indicated. Please do not use the date setting function between 9 p.m. and 3 a.m. Between these times, the gear wheels used for changing the date are engaged, and the movement could be damaged.

**Please take care to fasten the crown after making adjustments.**

## USING THE CHRONOGRAPH TO MEASURE TIME

Models: 103 Ti UTC TESTAF, 103 Ti TESTAF

The chronograph is operated by means of buttons A and B. The measurement starts when button A is pressed once. Pressing this button again stops the measurement. The measurement is resumed by pressing button A once more. This allows you to add up and record the cumulative time. Button B resets the hands of the chronograph to zero.





## USING THE PILOT'S BEZEL TO MEASURE TIME

Models: 103 Ti UTC TESTAF, 103 Ti TESTAF

The pilot's bezel is an outer ring divided into minutes, and can be moved manually in both directions. The triangle glows in the dark. It can be used in a number of ways, including to measure important lengths of time. For example, you can set the marking to the beginning of the time span to be measured, or you can use it to indicate the end of a given span of time. The triangle can be set in relation to the hour hand, minute hand or centre second hand.



## ADJUSTING THE LENGTH OF THE WATCH STRAPS

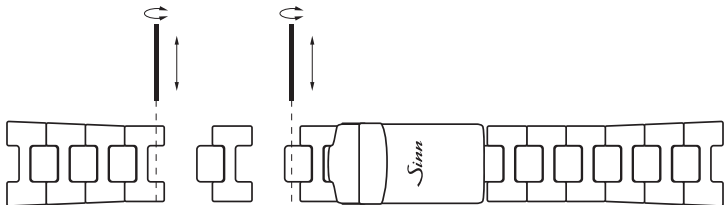
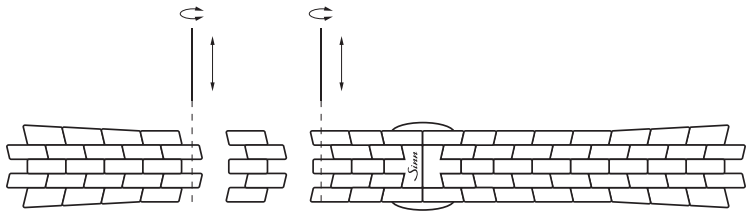
If you don't know how to shorten or lengthen the solid bracelet, please contact your SINN dealer or the watchmakers in our customer service department in Frankfurt am Main. Our customer service employees are also happy to help you over the telephone.

### **Adjusting the length of the solid bracelet**

Determine the relative lengths of the two sides before adjusting the length of the bracelet. To ensure maximum comfort, both sides of the bracelet should contain the same number of links. If this is not possible, the top bracelet strap (above the 12 on the clock) should be longer.

It is not necessary to detach the solid bracelet from the watch or the clasp.

1. Loosen the screws on the side of the bracelet link which is to be removed or added.
2. Remove the superfluous bracelet link or insert a new one.
3. Before screwing tight, add a small drop (no more!) of thread-locker (AN 302-42 medium-tight) to the thread of the bracelet screw.



# Ar-DEHUMIDIFYING TECHNOLOGY

## Indication colours of the drying capsule



Pale blue

Up to 25%  
saturation



Light blue

Up to 50%  
saturation



Medium blue

Up to 75%  
saturation



Dark blue

Up to 100%  
saturation



Initial condition



Drying capsule  
saturated

The colour scale for the Ar-Dehumidifying Technology: the capsule continues to absorb moisture until the darkest colouration is reached.

### **Perfect freedom from fogging**

All watches in this series are water-resistant as per DIN 8310. But even with watertight instruments, the air enclosed in the case contains water in a gaseous state. And air can also penetrate the seals and acrylic glasses. When the water vapour in the case condenses into liquid, the instruments are impossible to read. To prevent this from happening, we have developed the Ar-Dehumidifying Technology. The combination of a special drying capsule, EDR seals (**e**xtr**e**m**e** **d**iffusion **r**eduction) and a filling of protective gas guarantee that the crystal remains free from fogging, even in difficult conditions.

### **Longer service intervals**

The sophisticated Ar-Dehumidifying Technology considerably slows the aging process of the watch's inner workings and keeps the movement functioning properly for longer. That is why we issue a three-year warranty on all our watches featuring Ar-Dehumidifying Technology. When the drying capsule is saturated, as indicated by a deep blue colour (refer to picture on the left side), we recommend you have it exchanged so you can continue to enjoy all the advantages of the Ar-Dehumidifying Technology (enhanced reliability, longer intervals between maintenance).



Luminous

# TECHNICAL DETAILS 103 Ti UTC TESTAF

## Mechanical Movement

- Calibre Valjoux 7750 UTC
- Self-winding mechanism
- 25 bearing jewels
- Second stop function
- 28,800 semi-oscillations per hour
- Shock-resistant as per DIN 8308
- Anti-magnetic as per DIN 8309

## Watch Case

- Titanium bead-blasted
- Sapphire crystal on front, anti-reflective both sides
- Transparent back made of sapphire crystal glass, anti-reflective on the interior
- Screw-fastened case back
- Crown screwable
- Water-resistant as per DIN 8310
- Water-resistant and pressure resistant up to 20 bar (= 200 m underwater depth)
- Resistant to low pressure at high flight altitudes
- Band lug width 20 mm
- Case diameter 41 mm

## Tests and certification

- Tested and certified in accordance with TESTAF by Aachen University of Applied Sciences, Aerospace Engineering department

## SINN Technologies

- Ar-Dehumidifying Technology enhances functional reliability and freedom from fogging
- Temperature resistance technology, therefore functionally reliable at temperatures from -45°C up to +80°C
- Captive bezel

## Functions

- Hours, minutes, subsidiary seconds
- Second time zone (UTC) on 12-hour basis
- Chronograph
- Date display
- Pilot's bezel with minute ratcheting and luminous key mark

## Dial and Hands

- Matte black dial
- Numbers and indices coated with luminescent colour
- Hour and minute hand coated with luminescent colour
- Stopwatch minute and stopwatch second hand coated with luminescent colour
- Stopwatch minute indices coated with luminescent colour



Luminous



# TECHNICAL DETAILS 103 Ti TESTAF

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- 25 bearing jewels
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- Anti-magnetic as per DIN 8309

## Watch Case

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## SERVICE

### **General advice**

To preserve the water resistance for as long as possible, the watch should be rinsed whenever it has been in contact with seawater, chemicals, etc. If your watch is frequently worn in water or underwater, we recommend having its water resistance checked at yearly intervals.

The watch is designed to withstand high levels of mechanical wear and tear and is shock resistant as per DIN 8308. Nevertheless, it goes without saying that continual mechanical stress in the form of impacts or vibration will affect its durability. Care should therefore be taken to protect your watch from unnecessary wear and tear. It is only possible to judge how well the watch keeps time after it has been in operation for approximately eight weeks, since it takes that long for the working mechanism to become adjusted, especially in view of the fact that everybody has different lifestyles and habits. In the event of any excessive deviation, please keep a day-to-day record of its timekeeping over a period of about one week, for example.

### **Do you have any questions?**

Our employees will be pleased to advise you. Simply get in contact with us. We look forward to talking to you.

Telephone: + 49 (0)69 978 414 400

Telefax: + 49 (0)69 978 414 401

E-mail: [kundendienst@sinn.de](mailto:kundendienst@sinn.de)



**Should you need to send your watch in to customer service, we need to ensure the process goes smoothly. We ask that you please include the following information:**

- Name, address, e-mail address and fax number (where applicable) and a daytime telephone number.
- A detailed description of the problem. What is the exact nature of the defect? At what time does the problem arise? How often does the problem occur?
- Wherever possible, please state the date of purchase and your customer number (indicated on the invoice) or enclose a copy of the invoice.

For information about the process, please refer to the section entitled 'Repairs' in our general terms and conditions of business. You'll find our general terms and conditions of business on our website [www.sinn.de/en](http://www.sinn.de/en). We would be happy to send you a copy of the general terms and conditions, or you can contact our customer service department directly. For insurance reasons, we strongly recommend sending us any return goods by registered parcel post. As an alternative for customers in Germany, there is also the option of a collection service covered by transport insurance, on request. To ensure your request is dealt with smoothly, please call our customer service department! We regret that we are unable to accept deliveries with unpaid postage!

**Please send your watch to the following address:**

Sinn Spezialuhren GmbH  
Kundendienst  
Im Földchen 5-7  
60489 Frankfurt am Main  
Germany

You can also find comprehensive information about SINN, our watches and technologies at [www.sinn.de/en](http://www.sinn.de/en).

# Sinn

SPEZIALUHREN ZU FRANKFURT AM MAIN

Im Földchen 5-7 · 60489 Frankfurt/Main  
Telefon +49 (0) 69 . 97 84 14-200 · Fax -201  
<http://www.sinn.de> · [vertrieb@sinn.de](mailto:vertrieb@sinn.de)



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Technische Änderungen vorbehalten.  
Technical specifications are subject to changes.

