

Sinn

SPEZIALUHREN ZU FRANKFURT AM MAIN

1800 TITANDAMASZENER

THE WATCH MADE OF TITANIUM DAMASCUS,
LIMITED TO 100 PIECES





1800 TITANDAMASZENER: black vintage-look cowhide strap. Warranty 2 years. ø 43 mm (Fig.: 1:1)



1800 TITANDAMASZENER: grey nubuck boar strap. Warranty 2 years. ø 43 mm (Fig.: 1:1)



You will receive the watch in a fine wooden case with a black vintage-look cowhide strap and grey nubuck boar strap, a band replacement tool, spare spring bars, Eschenbach watchmaker's magnifying glass, care cloth and brochure.



Back view and side views of the **1800 TITANDAMASZENER.** (Fig.: 1:1)



1800 TITANDAMASZENER - luminous design. (Fig.: 1:1)

Large picture on the front:
1800 TITANDAMASZENER: grey nubuck boar strap.
 Warranty 2 years.

Model 1800 TITANDAMASZENER

The watch made of TITANIUM DAMASCUS, limited to 100 pieces.

Limited to 100 pieces

Case with integrated dial made of TITANIUM DAMASCUS

Case with TEGIMENT technology and therefore especially scratch-resistant

Sapphire crystal glass

Appliques attached by hand, glossy blue

Glossy blue hands

Water-resistant and pressure-resistant up to 10 bar

Resistant to low pressure

A unique watch is waiting to be discovered: a masterpiece of forging craftsmanship with unrivalled quality and timelessly elegant aesthetics. At the same time, our 1800 TITANDAMASZNER model is the ultimate combination of state-of-the-art technology and traditional watchmaking craftsmanship.

The 1800 TITANDAMASZENER model, limited to 100 pieces, is further proof of our broad application expertise in the fields of materials science and materials engineering (see timeline) - not least because the watch poses significant challenges in the creation process. There are tangible reasons why we chose titanium as the base material for this watch. After all, it is a valuable and versatile metal that offers many advantages due to its physical and chemical properties. Among other things, it is anti-allergic and is characterised by a very low specific weight and low conductivity, combined with rapid absorption of body heat. All in all, this makes it very comfortable to wear.

Unique design and appearance

If you look at the watch as a whole, its uniqueness in terms of design and appearance becomes apparent. In order to perfectly emphasise the characteristic texture of the TITANIUM DAMASCUS - an organic pattern of alternating light and dark surfaces - the dial is milled together with the centre section in one piece from the solid damask metal block - and not designed as a separate component as is usually the case.

The result: the Damascus pattern of the dial is continued across the entire case, forming a perfect unit. Thanks to TEGIMENT technology, we have also succeeded in making the case especially scratch-resistant. The back, crown and pin buckle are also made of TITANIUM DAMASCUS for a harmonious finish.

Refined elegance

This impressive overall look harmonises perfectly with the hand-applied, glossy blue appliques. Thanks to this special material appearance in combination with the very finely structured surface of the dial, the glossy blue hour, minute and second hands as well as the SINN logo, date window and lettering - in addition to the indices - are clearly accentuated. The contrast between the dial and the glossy blue elements also improves readability. This arrangement also impresses with its subtle colour nuances. This is because the glossy blue elements display a fascinating play of colours that varies depending on the viewing angle and incidence of light. Sometimes the blue appears almost black, while at other times it contrasts sharply. This lends the dial show an additional light elegance. The appliques as well as the hour and minute hands are luminescent blue so that the watch is easy to read in the dark.

The production process

The traditional production of the TITANIUM DAMASCUS is very complex and represents a unique combination of craftsmanship and ultra-modern manufacturing processes. The basic materials are titanium grade 2 and titanium grade 5. During production, the two metals are superimposed and fire-welded together. The workpiece is then forged, cut in half in a red-hot state and the two sections are placed on top of each other again. Experts refer to this process as "folding". The TITANIUM DAMASCUS produced in this way generates a special surface with a finely structured texture of the material. The name of the traditional company BALBACHDAMAST, with whom we are working on this watch, is a guarantee of master craftsmanship. The specialists have continuously developed the forging process used, which is over 2000 years old. The experts at SUG (Sächsische Uhrentechnologie GmbH Glashütte) are responsible for the high-quality production of the TITANIUM DAMASCUS cases.



We also use TITANIUM DAMASCUS based on grade 2 and grade 5 titanium alloys for the buckle bar and the crown.



Surface etching is used to reveal the layered structure. Each watch is a unique timepiece, as the flow of lines cannot be physically manipulated.

The challenge: different flow behaviour

Of course, the production of such a watch brings with it special challenges. One of these relates to the forging technology itself. This is because titanium grade 2 and titanium grade 5 differ greatly in terms of their mechanical strength. In practical terms, this means that the pure titanium grade 2 has a lighter flow behaviour, in contrast to the tough and high-strength titanium grade 5. During forging, titanium grade 2 literally flows out between the titanium alloy grade 5. Special attention and craftsmanship are therefore required to prevent complete flowing out. In addition, this excess material must first be removed after each forging process before further processing steps can take place.

The challenge: hardening the titanium

Without hardening the forged titanium, the watch can scratch more easily and lose the look typical of TITANIUM DAMASCUS. In fact, we succeeded in this very demanding process step - partly because we were able to utilise our many years of experience in hardening titanium for our EZM 10 TESTAF and EZM 9 TESTAF models as well as for the tegimented diver's rotating bezel for our T50, T1 and T2 models.

The challenge: etching the surface

The Damascus pattern is made visible in the final step of the manufacturing process by etching the surface. Grade 2 and grade 5 titanium are dissolved by an acid to varying degrees, creating the typical different nuances. As titanium is highly resistant to chemicals, this process is particularly technologically demanding.

Every 1800 TITANDAMASZENER is unique

The 1800 TITANDAMASZENER model is the result of this creative process and illustrates our high level of manufacturing expertise. This allows us to utilise a material such as TITANIUM DAMASCUS for watchmaking. For a timepiece that combines technology, craftsmanship and aesthetics and thus has an unrivalled appeal - also because the fascinating pattern of the TITANIUM DAMASCUS makes every 1800 TITANDAMASZENER unique on the wrist.

Sinn Spezialuhren - Experts in materials technology

The 1800 TITANDAMASZENER model demonstrates our many years of expertise in the specialist field of materials technology. A fact which we have proven throughout the company's history by using materials that were completely new to watchmaking:

In 1995, we presented the first 22-carat yellow gold watch with a material hardness equivalent to that of stainless steel (220 HV).

1995

2005

2005 German Submarine Steel was used for diving watches for the first time.

In 2015, we transferred the traditional material of Damascus steel into a form suitable for watch cases for the first time, in which the dial and the centre section are milled in one piece from a solid block of steel. For the case of our 1800 S DAMASZENER model, the composite of different types of steel used was achieved using a powder metallurgy process.

2015

2018

With the 1800 DAMASZENER, limited to 100 pieces, we presented a watch made from genuine fire-welded Damascus steel, produced using a traditional forging process, for the first time in 2018. Here too, the dial and the centre section were milled in one piece from a solid block of steel.

In 2023, we demonstrated our in-depth knowledge in the field of metallurgy with the T50 GOLDBRONZE model, which is limited to 300 pieces. In this model, we are using Goldbronze 125 (CuSn7Au12.5) for the first time. A bronze alloy developed and patented by us, which consists of one eighth gold. The gold bronze, which is produced in a multi-stage alloying process, has an exceptionally high degree of purity, which results in improved skin compatibility and increased corrosion resistance to sea water.

2023

2024

With the 1800 TITANDAMASZENER, limited to 100 pieces, we are now presenting a watch made of TITANIUM DAMASCUS in 2024, in which we use titanium grade 2 and titanium grade 5 as base materials.