



VESUVIATE

FEATURES (ATTIVO-DUPLEX)

Case & Bracelets – Stainless steel 316L with case/surface hardening heat treatment. SS 316L has very low carbon content with a maximum of only 0.035% and has corrosion and magnetic resistance; hence, it is widely used in the food and medical industries, as well as diving equipment and marine applications. Despite its relatively good hardness @ 222HV (HV = Vickers Hardness) compared to the 904L @ 149HV, we have decided to use case hardening heat treatment to harden the surface of the 316L to the hardness value of 1,100HV +/- 10% (i.e. almost five times, which is equivalent to the hardness of hard chrome) to improve the wear resistance further. The thermos-chemical process* diffuses nitrogen into the surface of the 316L, bombarding the surface with energetic nitrogen ions, which allow nitrogen ions to diffuse and form a case-hardened surface (Note: This is NOT a “coating” process per se that merely applying a thin layer of covering e.g. powder, epoxy, electroplating or chrome, which supposes to be a “shell” or “skin” over the metal which will eventually peel, crack or flake off due to lack of adhesion between the covering the substrate). Through the heat treatment process, the 316L will not only become more scratch-resistant, but its performance, working lifespan, strain limit, and fatigue strength will also be enhanced, other advantages of this process are the low-temperature range to avoid shape distortion and maintaining 316L corrosion resistance properties. Any alloy, carbon steels, cast irons, stainless steels, Inconel and titanium can be nitride treated by tweaking the temperature and processing time.

***Note.** This heat-treating process has existed since the 1920s; however, it only started gaining popularity in the last three decades. Due to its increasing popularity, further developments were made to create a more efficient process that can be accurately controlled with lower costs. Vesuviate Watches is neither the inventor nor the proprietary owner of this industrial heat-treatment process (Disclaimer – The use of such a process does not infringe the Patents or other intellectual property rights of any Third Party).

Case dimensions – 39mm width with a lug-to-lug length of 46.2mm. The overall thickness is 11.5mm measured at the apex of the sapphire.

Crown – 6.5mm diameter, screw-down SS 316L, case/surface-hardened.

Bracelets dimensions – 24mm connected with central links at 16mm between the lugs with solid links, deployant clasp equipped with on-the fly micro-adjustment – 21mm. All components SS 316L, case/surface-hardened.

Watch Crystal – 2.55mm thick Domed Sapphire Crystal with five (5) layers of inner anti-reflective coatings. Sapphire is chosen in favor of mineral crystal for its resistance to scratches and shattering. Similar to Ceramic, the hardness of Sapphire is 2,000HV.

Lume – Super-LumiNova – BGW9 (Day – White, Night – Blue-Green), Grade A pigment is chosen for the excellent afterglow performance. This material is 100% Swiss made, non-radioactive, REACH compatible, high temperature, environmental resistance, and complies with ISO 3157:1991 requirements. Note. With the exception of the white dial which is full-lume.

Water Resistance – Rating - 10 ATM / 100m / 330ft. This watch is designed to withstand underwater depths of at least 100 meters which meets the ISO 6425 requirement. Hence, it is safe for recreational sports such as swimming, free/skin diving.

Case Back – Exhibition, 2 x flat 1.2mm Sapphire Crystals.



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Movement/Caliber – The heart of the watch – 2 x Peacock SL-7020 Gilt (Peacock Factory custom Gilt), one of the smallest automatic calibers at 4.8mm thick, 17.5mm O.D. It is equipped with hacking – i.e. second hand halt mechanism, self-winding – biidirectional, 25 jewels with a typical power reserve of 36 hours, frequency of 28,800 beats per hour, 4 Hz (Eight vibrations a second, providing a smooth action center second hand, accuracy of -10 ~ +30 second (per day).

Features – Hours, minutes, central running seconds.

Warranty – Our watch is warranted for One (1) years from the date of purchase against any and all manufacturer's defects, and Yes, the warranty card is also made of Stainless Steel 316L just like the watch! Any damage resulting from improper handling, extreme use, accident or negligence is not covered under this warranty.

SPECIFICATION SUMMARY:

Dimensions:	Width 39mm x Length 46.2mm x Thickness 11.5mm (At the apex of sapphire)
Case & Bands:	Stainless Steel 316L case hardened to 1,100HV +/- 10% heat treatment
Crystal:	2.55mm thick Domed Sapphire 2,000HV with inner anti-reflective (AR) coating
Case back:	2 x 1.2mm Flat Sapphire Crystal 2,000HV, SS 316 exhibition case back
Movement:	2 x Peacock SL-7020 Gilt (Peacock Factory custom Gilt)
Power reserve:	≥36 hours
Accuracy:	-10 ~ +30 sec (per Day)
Frequency:	28,800 vph (vibrations per Hour)
Jewels:	25 pcs
Rotor Winding:	Bidirectional
Anti-shock:	Shock Protection System
Bracelet / Strap:	24mm, Stainless Steel 316L case hardened to 1,100HV +/- 10% heat treatment
Water resistance:	10 ATM / 100m / 330ft
Indicators:	Hours, minutes, center sweep second. Swiss Super-LuminNova BGW9, Gr A
Weight:	160 gm (complete with all the links)
Designed:	Singapore
Warranty:	One Year