

Data sheet

MasterSeal

Made in Germany

Applications

- Diving Suits
- Light weight neoprene and fabric dry suits
- Tents, flexible covers
- Protective clothing for leisure, safety and industrial applications (gas and chemical protection)
- Flexible containers for electronic instruments and documents, and for machinery and apparatus for storage and transport
- Bags and backpacks for daily use and outdoor activities such as cycling, biking, sailing, hiking, climbing

...and various others

Reinforcement

For TIZIP MasterSeal 10 zippers, closed both ends and open top, we have a reinforcement for the bottom stop available. We recommend this feature for heavy duty bag applications and for main entry zippers for diving survival and water surface dry suits. The reinforcement strap holds the zipper stringers before they get bent or broken over the edge of the slider in the complete open position.

Tightness

The TIZIP MasterSeal 10 is easy to operate, and pressure tested to 500 mbar

Testing

The sealing function of the TIZIP MasterSeal 10 is tested by fastening the zipper in a straight rectangular frame, 3 cm wide, face down. Compressed air is applied to the front side of the zipper and water poured over the back until it is submersed. To pass the test no air bubbles may occur for a period of 20 seconds. Random testing is performed during the production of every batch.

Storage and Transportation

For storage, long- and short term and during transportation we recommend to leave the zipper chain closed. The closed chain protects the sealing lips from dirt and damage.

High humidity and temperatures over room temperature must be avoided!

The technical principle

The TIZIP MasterSeal 10 is made from high-strength fabric coated with thermoplastic polyurethane. The extra strong plastic teeth are fixed on the top and bottom of the zipper tape. The zipper's coupling elements keep the sealing edges tightly sealed together when the zipper is closed. The zipper tape can be both welded and glued.

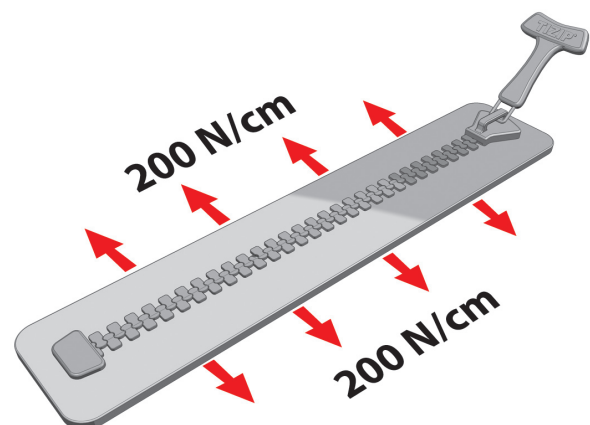
The TIZIP MasterSeal 10 slider is made from a metal compound which is non skin irritating and salt water resistant. The slider movement is contact free and does not wear on the zipper tape or the sealing edge.

Dirt or Sand

The TIZIP MasterSeal 10 is highly resistant to damage caused by dirt or sand. However if dirt or sand are present, the zipper should be cleaned with soap and water. Dirt particles can affect the sealing function if they get caught between the chain profiles. If the TIZIP MasterSeal 10 closure is used to protect life or sensitive material, the sealing function and cleanliness of the chain area should be thoroughly checked prior to every usage.

Stability

The TIZIP MasterSeal 10's performance in terms of strength and durability is very good. However, sharp bending or twisting should be avoided. When closed, the TIZIP MasterSeal 10 has a cross breaking strength of minimum 200 N/cm.



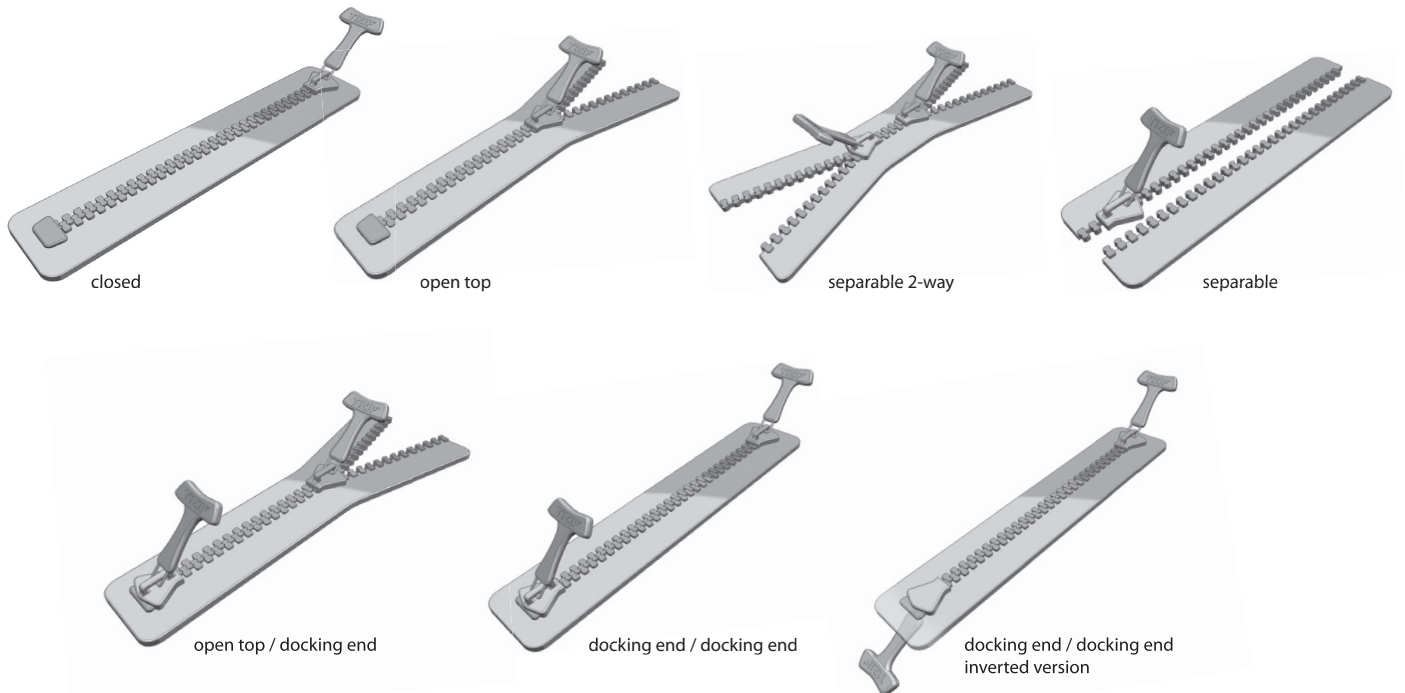
Lubrication

Both ends closed TIZIP MasterSeal 10 zippers need to be lubricated on the docking end from time to time. Please use the original TIZIP lubricant or other available zipper lubricant. Carefully apply over the docking end surfaces on front and back and inside where they connect to the zipper chain. Repeat before long term storage leaving the slider closed and whenever the area is dry during use.

Operating Force

Opening and closing the TIZIP MasterSeal 10 requires moderate pulling force on the slider. Please allow a slightly higher pulling force to undock the both ends closed version. Some lubrication can help to reduce the pulling force on the docking end. The chain is maintenance free.

Versions



- Width: 50 mm and 70 mm
- Chain width: 10 mm

Extensions over end stop and docking end: 25 mm

Extensions over end stop for MaterSeal separable: 0mm

Extensions over end stop for MaterSeal separable 2-way: 17mm

Resistance

UV-Light	Very Good
Microbes	Satisfactory
Oil and Petrol	Very Good
Hydrolysis (normal temperatures)	Good
Hydrolysis (extreme temperatures and humidity)	Sufficient
Temperature range	-30°C - +70°C
Light acids and alkalis (normal temperature)	Good

Many new technologies are involved in the Tizp Masterseal 10, including technology licensed by Riri SA.



European Union:
TITEX Vertriebs-GmbH
Rainstr. 6, DE-91560 Heilsbronn
TEL: +49 (0)9872 - 800188
FAX: +49 (0)9872 - 800288
info@tizip.com www.tizip.com

Outside European Union:
TITEX Vertriebs-GmbH
Bahnstraße 58, CH-8105 Regensdorf
TEL: +41 (0)43 3110252
FAX: +41 (0)43 3110253
info@tizip.com