

AQUAFIT™ NS

A. GENERAL PRODUCT INFORMATION

AQUAFIT NS is a low temperature thermoplastic material with a non-stick (NS) coating which has unlimited potential for fabrication of very large to very small orthoses.

AQUAFIT NS is applied directly to the patient after it is activated.

! AQUAFIT NS is not suitable for internal use. It may not be used on open wounds or in the mouth.

B. PRODUCT RANGE

This product is available in sheets of different thicknesses and perforation types.

Article No.	Type	Size in mm (inch)	Thickness in mm (inch)	Perforation
8632N.1/NS	soft	450 x 600 (17 11/16" x 23 9/16")	1.6 (1/16")	non-perforated
8632N.2/NS	soft	450 x 600 (17 11/16" x 23 9/16")	1.6 (1/16")	micro
8639N.1/NS	soft	450 x 600 (17 11/16" x 23 9/16")	2.4 (3/32")	non-perforated
8639N.2+/NS	soft	450 x 600 (17 11/16" x 23 9/16")	2.4 (3/32")	micro plus
8634N.1/NS	soft	450 x 600 (17 11/16" x 23 9/16")	3.2 (1/8")	non-perforated
8634N.6/NS	soft	450 x 600 (17 11/16" x 23 9/16")	3.2 (1/8")	macro
8634N.3/NS	soft	450 x 600 (17 11/16" x 23 9/16")	3.2 (1/8")	maxi
8654N.1/NS	soft	600 x 900 (23 11/16" x 35 3/8")	3.2 (1/8")	non-perforated
8654N.6/NS	soft	600 x 900 (23 11/16" x 35 3/8")	3.2 (1/8")	macro
8634N.ST1/NS	stiff	450 x 600 (17 11/16" x 23 9/16")	3.2 (1/8")	non-perforated
8634N.ST6/NS	stiff	450 x 600 (17 11/16" x 23 9/16")	3.2 (1/8")	macro
8654N.ST1/NS	stiff	600 x 900 (23 11/16" x 35 3/8")	3.2 (1/8")	non-perforated
8654N.ST6/NS	stiff	600 x 900 (23 11/16" x 35 3/8")	3.2 (1/8")	macro

C. PRECAUTIONS BEFORE USE

1. The workplace must be well-ventilated to avoid overheating.
2. The necessary tools should in no way put the patient at risk.
3. Encourage the patient to assume a comfortable position and make sure that you yourself are in an easy working position.

D. WORKING PROPERTIES

Cutting

Cutting to rough size is easiest by carving with a cutter, then breaking manually. Pattern cutting is done after semi-activation.

Activation

1. Activation in a water bath

AQUAFIT NS is softened by heating at a temperature of **65°C (149°F)**. Possible activation source is a water bath.

Activation time: 3 min. at 65°C (149°F)

Take the material out of the water bath and dry quickly on a towel. Afterwards, apply the material to the patient.

! Make sure that the temperature of the activated material will not burn the patient.

2. Activation in an oven or dry heating device.

AQUAFIT NS is softened by heating at a temperature of **75-90°C (176-194°F)**.

When using a heating plate or an oven, the hot surface must be covered with a Teflon film.

When using a heat gun, do not exceed the set temperature of 250°C (482°F) to avoid breakdown of the material.

High temperatures up to a maximum of 180°C (356°F) do not damage AQUAFIT NS but are not user-friendly. Higher temperatures are allowed on the condition that the activation time is reduced accordingly.

! Wear gloves and do not apply AQUAFIT NS directly to the patient's skin at high activation temperatures.

! Never use an open flame to activate AQUAFIT NS.

Application

1. Let AQUAFIT NS cool DOWN before application.

! AQUAFIT NS is:

- not adhesive when wet heated or when dry heated and powdered with talcum.
- a little adhesive when wet heated, toweled and pressed together and when dry heated at low temperature (up to 80°C or 176°F).
- cohesive when dry heated at high temperature (over 100°C or 212°F). However, the bonding is not permanent and will pop once hardened.

2. In case of accidental bonding, let AQUAFIT NS harden completely and then pop apart. Reactivation in hot water or oven is possible.

- To attach fixation straps and secure hinges, outriggers or other accessories to the orthosis, the NS film must be REMOVED locally. This can be done by spot heating the surface and by tearing the film, by vigorous pressure with twist movements. The film can also be scratched off with a knife, with rough sandpaper or with a grinding tool. Do not encrust the film into the orthotic fabrication material by back and forth movements.

E. FINISHING

There are several ways to give the edges of an AQUAFIT NS orthosis a smooth and even finish:

- Local reheating and rubbing with a wet finger.
- After hardening, edge finishing can be done with a deburring knife.

F. MAINTENANCE AND WASTE MANAGEMENT

- ! When cleaning AQUAFIT NS, avoid prolonged contact with detergents and acids which may affect the NS film.** Disinfection is possible with alcohol, quaternary ammonium or a solution of commercial disinfecting soaps (HAC®, Sterilium®, etc.)
After use, AQUAFIT NS can be disposed of with normal household waste without harming the environment. AQUAFIT NS is biodegradable.

G. STORAGE

AQUAFIT NS sheets and leftovers must be stored individually in their original plastic packaging to avoid cohesion.
AQUAFIT NS must be stored in a dark, cool, dry place at a temperature of min. 10°C (50°F) and max 30°C (86°F).

H. ADDITIONAL INFORMATION

For additional information such as distributor contact information, product brochures, Safety Data Sheets and regulatory information, please visit our website www.orfit.com.

Note:

It is prohibited to make alterations to this text without prior approval from Orfit Industries.
ORFIT® is a registered trademark of Orfit Industries



ORFIT INDUSTRIES
Vosveld 9A | B-2110 Wijnegem | Belgium
T (+32) (0)3 326 20 26
welcome@orfit.com

www.orfit.com



Ref. No. 31090
VERSION 5
LAST UPDATE: 05/05/2021
REVISION DATE: 05/05/2023