

Starshield Gel

Starshield is a hull sealant made with an industrial-grade [nanogel](#) developed by the [Yugumo Corporation](#) in [YE 45](#).



Year of Creation	YE 45
Designer	Yugumo Fleetworks
Nomenclature	YU-U6-1A
Manufacturer	Yugumo Corporation , Yugumo Fleetworks
Fielded by	Yugumo Corporation
Availability	Mass Production
Price	Starting at 175KS

History and Background

Starshield gel was created by [Yugumo Fleetworks](#) to be included in [Yugumo Standard Damage Control Alcoves](#) and for retail sale in [YE 45](#). They sought an easy-to-utilize hand-held applicator that could deliver the gel into a hull breach easily by damage control teams.



Function and Design

Starshield Gel is a self-expanding hull sealant [nanogel](#) that is used to seal small hull breaches, punctures, and fractures. It is sold by the cartridge which fits in an applicator gun.

Starshield Gel

The core component of the [nanogel](#) is a dense concentration of specially engineered nanoparticles of [graphene](#). The nanoparticles are suspended within a flexible [polymer](#) matrix and [nanobots](#). This matrix is a critical element as it provides the nanogel with its gel-like consistency, allowing it to be easily applied to breach sites and conform to various shapes and sizes. They possess remarkable mechanical strength and can be programmed to adhere to [durandium](#) and other alloys.

Nanorobotics

Embedded within the nanogel are tiny [nanobots](#) or micromachines. These minuscule devices serve multiple functions. They help distribute the nanogel evenly over the breach area, ensuring complete coverage. Additionally, they can be programmed to actively repair and reinforce the damaged hull by fusing with the existing material. The [nanobots](#) interface with a [KAIMON-Aperture](#) chip in the gun as well as any [KAIMON/Ascendant Companion](#) or other [KAIMON](#) system.

Useage

The Gel comes in small cartridges or canisters that snap into the front of the applicator gun. It utilizes pressure on the trigger to push the Starshield Gel from the canister and through the applicator's nozzle.

¹⁾

- **Deployment:** The nanogel is rapidly deployed to the breach site. Its gel-like consistency allows it to flow into the breach and conform to its shape.
- **Sealing:** Once in place, the nanogel's nanoparticles and nanobots work together to seal the breach. The nanoparticles provide mechanical strength and stability, while the nanobots actively repair and reinforce the damaged area.
- **Monitoring:** The smart sensors continue to monitor the repaired area, ensuring that it remains stable and secure. If additional repairs are needed, the nanogel can be further activated or replaced as necessary.

In general, this is designed to repair small breaches, fractures, and other small punctures under the size of a fist.

Pricing

Components are priced as follows:

- Applicator gun with 50 cartridges and Charger Cradle - 175KS
- 150 cartridges - 180KS
- New Capacitors - 150KS
- Charger Cradle - 125KS
- Replacement Applicator - 125KS

Cross-Platform Functionality

Starshield products can have their  nanobots programmed to work with systems other than **KAIMON** at the customer's request. For example, any sold to the **Star Army of Yamatai** will be configured to work with **PANTHEON** based systems.

OOO Notes

Andrew created this article on 2023/09/11 11:01. Written with the assistance of ChatGPT.

This article was approved by **Wes** on 2023/10/04.²⁾

Last update: 2023/12/21 04:21 corp:yugumo_corporation:equipment:starshield_gel https://wiki.stararmy.com/doku.php?id=corp:yugumo_corporation:equipment:starshield_gel

Products & Items Database	
Product Categories	tools
Product Name	Starshield Gel
Nomenclature	YU-U6-1A
Manufacturer	Yugumo Corporation , Yugumo Fleetworks
Year Released	YE 45
Price (KS)	175.00 KS
DR v3 max	Tier 0

1)

It uses a similar method as a  caulk gun

2)

<https://stararmy.com/roleplay-forum/threads/starshield-gel.70866/#post-441151>

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