

SythSetae

Manufacturer: Azorean Commonwealth Usage for: as a patch of skin for police/military Azorean Rills, Azorean military/police drones, and possibly suits for people

Description

After a long period studying certain Azorean crabs' and undersea geckos' [Setas](#), Azorean engineers created a patch of tiny synthetic, prototype, nanostructure clusters—all collectively called Sythsetas (plural) or Sythsetas patch (singular). To normal 20/20 vision, it looks like a black patch, with fingerprint-like grooves, that you would put on a suit or robot body part. Each Sythsetas patch is hundreds of individual Sythseta, which all aligned in rows. Each one of these individual 5-micron-wide Sythseta is made of thousands of tiny spatulas. The spatula is the name for the actual 1-micron-wide nanostructure and has shape of a hair with a suction cup end. However, the spatulas differ in physics from suction cups, because they use [Van der Wall Force](#), and they work even in a vacuum just like regular [Gecko's spatulas](#). Together all the spatulas allow each Sythseta to have Extraordinary Adhesion of bonding to nearly every surface except [PTFE](#). The adhesion is even more Extraordinary because of a detachment speed less than 15 milliseconds. The Sythsetas patch itself is easy to maintain since they are mostly self-cleaning via any natural walking motion, especially on when on PTFE.

Purpose

For drones and rill, Sythsetas assists slightly propelling them through sand via a paddle motion in addition to allowing these machines to climb ropes and move up vertical walls. Also, Sythsetas require [Dynamical Equilibrium](#) even more than normal robots to properly walk or rest. In nonprofessional terms, this means there is an additional rotational balance in terms of torque must be maintained with at least two-three opposing feet, or then the object will promptly fall off a vertical surface or rope if it tries to rest or even walk. In most cases, a tail or large gluteus maximus counts as a foot.

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