

Lonite

Lonite is a living metal with minor regenerative properties, it is a material that is malleable until it is exposed to certain stimuli where it then becomes hard and stiff.

Designer	Psychopomp LLC
Manufacturer	Psychopomp LLC
Fielded by	Psychopomp LLC
Availability	Limited Production

History

Lonite was created by Psychopomp in YE 42 as a byproduct of the Silverback program.

Function and Design

Lonite is a living metal that is a genetically engineered organism that can break down and absorb basic metals¹⁾ to harden itself. It remains amorphous and malleable until it “eats” material wherein it then becomes stiff and takes on traits of what it has consumed while also keeping some regenerative properties.²⁾ After its formative process has completed it can still consume materials that enter it, given enough time, which can expedite its self-repair by providing excess nutrients for it.

The process that Lonite uses to consume metals is very similar to the oxidization and rusting process that happens in the real world wherein Lonite will use excess oxygen that it has and covers the metals it is consuming in a viscous substance that also contains water and a chemical that it produces to rapidly oxidize the materials within it before it consumes the weakened metals. This process is slowed when it finishes its formative process as it begins to use the water and oxygen in its system more rapidly to function and maintain its form.

Lonite prefers ferrous or heavy metals for consumption as the high-calorie count allows it to have a higher energy return from its “meal” it has trouble consuming non-ferrous metals as they tend to melt due to Lonite's internal temperature before they can be absorbed. Lonite itself has an aversion to metals containing Zinc as it slows down the consumption process and harms Lonite through its galvanizing properties.

Lonite on its own is nothing to be proud of but its ability to combine multiple materials and use their strengths makes it a formidable material for armor. However, it is quite weak to fire which will make it very brittle and causes it to effectively die.

Common Formations	
Tungsten-Iron-Carbon	High heat resistance, durability and tensile strength.
Titanium-Tungsten	High heat resistance and strength. ³⁾ Also resists tarnishes and deformations.

Common Formations	
Titanium-Uranium(Depleted)	High density, durability, and strength. Resists tarnishes and deformations.
Iridium-Tungsten	Super high density, heat and corrosion resistant, hard, low to mid durability, and brittle.

Production and Life Cycle

Lonite is created using byproducts from the [Artificial Body](#) program and repurposing the stem cells for a different purpose. They contain a very low instinctual form of intelligence where it will seek out nutrients and suitable environments for itself. More can also be created by adding water and to Lonite in its pre-formative phase. Lonite will “die” if it is not fed adequate nutrients.⁴⁾

Appearance

Lonite is a fleshy pink while it has not absorbed anything but will take on the color of what it absorbs during its molding process. Its consistency at rest is that of a cornstarch.

OOC Notes

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- 1)
It cannot break down alloyed metals very well nor take on their properties due to their complexities instead only using them as nutrients for self-repair
- 2)
It cannot take on more properties after this process finishes
- 3)
allows for prolonged space use
- 4)
Length can vary depending on how much it has stored and how active it is but maximum time without feeding is 45 days.

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