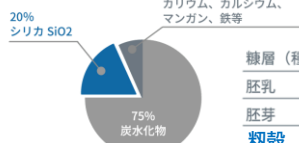


# お米の籾殻から バイオマスシリカを生成

株式会社M.I.Tは、廃棄されるお米の籾殻を有効活用し、  
Made in JAPANのサステナブルな素材「籾殻シリカ」を生成する  
生成機と生成品を製造・販売しています。

植物は、成長の際に土壌からシリカ(SiO<sub>2</sub>)など様々な成分を吸収。  
「稲」は、他の植物よりもシリカを多く含有します。  
土や水にこだわって育てられた日本のお米の籾殻は、有用な国産資源です。

籾殻の成分

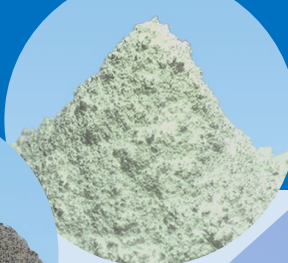


糠層（種皮）  
胚乳  
胚芽  
籾殻



## 高純度・非晶質・多孔質 バイオマス100%／有機JAS資材 籾殻シリカ

M.I.T「エシカルスター®」で生成。  
植物由来シリカの特性と強みを生かし  
建材や食品など様々な製品の原料に。



1. 地球に優しいバイオマス100%・有機JAS規格別表1適合資材
2. 高純度／非晶質／多孔質
3. 自社工場にて、粒度や純度などご要望に応じて加工します
4. 日本各地の米どころの提携先と協働し安定供給

東大阪工場



特許取得:第6389349号



灯油など化石燃料を使わず、  
低燃費で籾殻シリカを自動生成。  
雇用創出・稲作支援にも。

## M.I.T籾殻シリカ生成機 エシカルスター®

技術指導・サポート・メンテナンス対応いたします

1. 約800kgの籾殻から約15%の籾殻シリカを生成
2. 建屋内で全工程を管理し、天候に左右されずに生産
3. 稼働状況をコンピュータ制御でき、遠隔での監視が可能
4. 着火剤は市販の小型固形燃料のみ。籾殻を自然させて生成
5. ダイオキシンが発生せず、消防法の規制対象外
6. 排水は「籾殻酢液」として防腐剤や害虫忌避剤に  
廃熱はビニールハウス内の温熱などに
7. 農閑期の新たな産業と、雇用の創出、稲作支援に

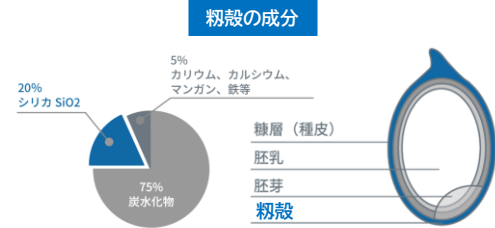




# From rice husks Biomass silica is produced

M.I.T. Corporation manufactures and sells rice husk silica generators and products that make effective use of discarded rice husks to produce "rice husk silica," a made-in-Japan sustainable material. M.I.T. produces and sells rice husk silica, a sustainable material made in Japan, by making effective use of discarded rice husks.

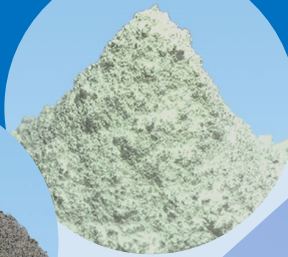
Plants absorb various components such as silica ( $\text{SiO}_2$ ) from the soil during growth. Rice contains more silica than other plants. Husks of Japanese rice, grown with special attention to soil and water, are a useful domestic resource.



High purity, amorphous, porous  
100% biomass / Organic JAS material

## Rice husk silica

Generated by M.I.T "Ethical Star®". Taking advantage of the characteristics and strengths of plant-derived silica as a raw material for various products such as construction materials and food products.



1. Earth-friendly 100% biomass, organic JAS standard Appendix 1 compliant material
2. High purity/amorphous/porous
3. We process the product at our own plant according to your requests in terms of particle size, purity, etc.
4. Stable supply of rice through collaboration with partners in rice-producing regions throughout



License: No. 6389349



No fossil fuels such as kerosene are used. Automatically produces rice husk silica with low fuel consumption. It also creates employment and supports rice cultivation.

## Rice husk silica generator Ethical Star®

Technical guidance, support and maintenance are available.

1. Produces about 15% rice husk silica from about 800 kg of rice husks
2. All processes are controlled in the building, and production is not affected by weather conditions.
3. Operating conditions can be computer-controlled and monitored remotely
4. The only igniter is a small commercially available solid fuel. Generated by self-combustion of rice husks.
5. No dioxin is generated and not regulated by the Fire Service Law
6. Wastewater is used as "rice husk vinegar solution" as an antiseptic and pest repellent. Waste heat is used to heat greenhouses, etc.
7. To create a new industry in the off-season, to create jobs, and to support rice cultivation

