

Iranian Companies Have Introduced More Than 600 Nanoproductions to the Market

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As reported by the Iran NanoProduct Certification Unit (INPCU), a total of 627 nanotechnology products manufactured by 238 companies were issued the NanoScale Certificate by the end of 2019.

[Iran](#) Nanotechnology Innovation Council ([INIC](#)) issues the NanoScale Certificate to nanotechnology-enabled products and equipment with the aim of bringing simplicity and transparency to the nanotechnology products' market, improving the quality of the products, boosting consumer confidence, and last but not least, expanding the market for those products.

Under the terms set by the Institute of Standards and Industrial Research of [Iran](#) ([ISIRI 12098](#)) and International Standards ([ISO/TS27687](#)), the materials and products that meet the requirements described below fall into the field of nanotechnology and are eligible to receive the NanoScale Certificate.

- The product is manufactured based on at least one component which is between 1 to 100 nanometers in at least one dimension.
- The product is manufactured using an engineering process.
- The properties of the product are enhanced or enabled.

The NanoScale Certificate is a one-year certificate which can be extended for another one year, during which periodic inspections of the relating companies are carried out for ensuring that the products continue to satisfy the terms of the certificate.

According to statistics released by the [Iran](#) NanoProduct Certification Unit ([INPCU](#)), 419 products and 208 types of equipment from 186 manufacturing companies and 52 equipment providers received the NanoScale Certificate by the end of 2019. Figure 1 illustrates the numbers of the products and the equipment types certified with the NanoScale Certificate

from 2008 to 2019; it is clear that the numbers of both the products and the equipment types have been growing during the past years; and the number of the product types has exceeded the number of the equipment since 2016.



Figure 1. Number of products certified by nanoScale in 2008-2019.

The statistics also shows that the “construction industry” has the largest share – 24 percent – of these products among various industrial sectors. “Home appliances”, “industrial supplies & services”, and “medicine & health” share the second rank, each holding 13 percent of the products, followed by the “textiles” and “raw materials” in the third rank with 11 percent each. “Energy & oil” is one of the areas that [Iran](#) places a high priority on; however, it has only 4 percent of the products granted the NanoScale Certificate.

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