

Catalysts for Edible Oil Hydrogenation



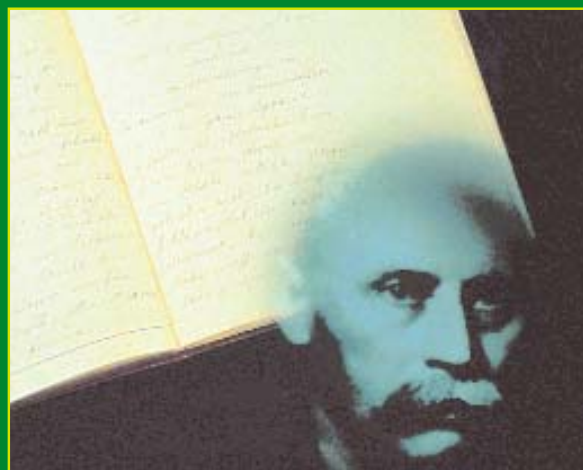
Johnson Matthey
Catalysts

Johnson Matthey Catalysts

- a new name in edible oils, but with years of experience!

The world's largest fabricator and distributor of platinum group metals has now added base metal catalysts to its portfolio, following the acquisition of Syntex in 2002. The **PRICAT** range of nickel hydrogenation catalysts for use in edible oils and oleochemicals, offer superior activity, consistency and selectivity along with unparalleled technical support.

Johnson Matthey was founded in 1817 as a company specializing in precious metals. Close to two centuries later, it is the world's leading precious metals refiner. From a company that traded and dealt in the precious metals, it developed into a company finding uses for the metals and manufacturing products as diverse as catalytic converters for the car and anti-cancer drugs for the body. It is now one of the largest catalyst companies in the world.

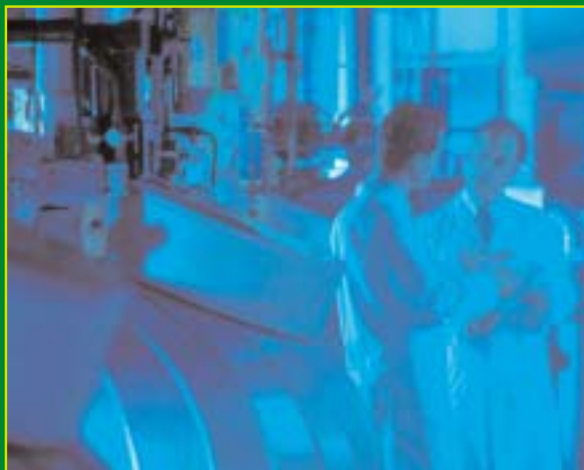


“No problems, no surprises! I want efficient, cost effective catalysts that have superior activity, selectivity and filtration!”

This is what we hear from you – our customers.

We listen!

Johnson Matthey Catalysts supply a range of catalysts that guarantee no problems and no surprises. Efficiency



is what marks leaders out from followers in the present edible oils market, and our goal is to enhance your efficiency by supplying a catalyst that does everything you want it to and nothing you don't want it to!

Using a combination of extensive research and development and state-of-the-art manufacturing technology, we produce a range of catalysts that give the performance required by our customers - time and time again.

Products

PRICAT 9910 – normal hydrogenation.

Our standard catalyst for edible oil hydrogenation used to produce a wide variety of fats. It exhibits high activity even in poor quality feedstocks, and medium selectivity. Very suitable for full hydrogenation due to its high catalyst-poison resistance and high activity.

PRICAT 9920 – selective hydrogenation.

The catalyst of choice for polyene-selective, partial hydrogenation. Ideal for low trans selective reactions and removal of linolenic with minimal formation of stearin (such as in the production of stable frying oils).

PRICAT 9908 – steep melting curve fats.

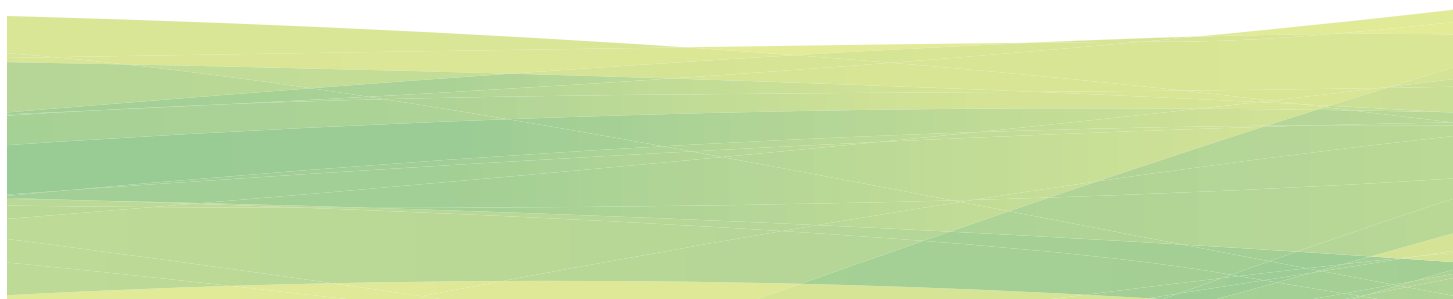
This is a sulphur-promoted catalyst that maximises the isomerization of double bonds. Gives steep melting curve fats in non-lauric oils suitable for use as cocoa butter replacers.

PRICAT 9936 – high acidity hydrogenation.

For use in poor quality and/or industrial triglycerides. This is a catalyst which can cope with very high levels of free fatty acids, and can be used for partial or full hydrogenation of this type of feedstock.

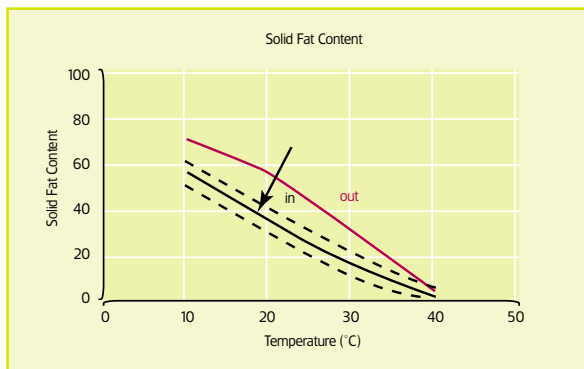
Tailor-made catalysts

Johnson Matthey Catalysts can also offer tailor-made catalysts to suit individual customer requirements. Adjustments made to the catalyst can range from addition of filter-aid to a change in the activity or selectivity to suit a particular reaction.



Technical Service

The experience within the Johnson Matthey Catalysts Edible Oil group dates back to the beginning of hydrogenation of fats and oils with inventor Dr. Wilhelm Normann. Our knowledge and expertise is available to our customer as part of our exemplary technical service. Examples of this are:



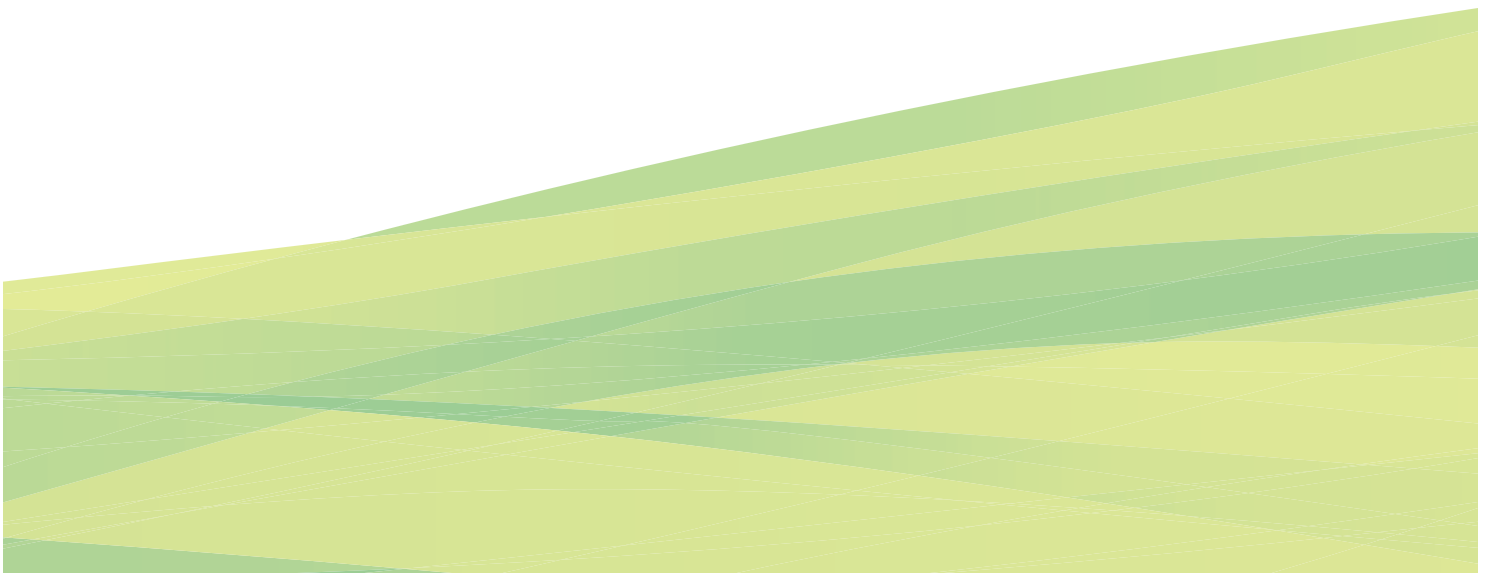
*Get that out-of-spec melting curve back where you need it!
Technical service from Johnson Matthey can help.*

- Technical training seminar
We offer technical seminars for training our customers in the use of the catalyst and hydrogenation techniques. These seminars have been successful with all levels of users of the catalyst – operators, engineers and plant management.
- Trouble shooting
Can't get that melting curve in specification? Need to lower your trans level in a basestock? These are the kind of problems we find solutions to, working closely with our customers. The knowledge of our experienced sales team is backed up by our own analytical and research laboratories, and custom designed software.

Quality and Consistency

Our goal - Top quality catalyst that is the same every time.

Detailed laboratory analysis and testing of manufactured catalyst in real hydrogenation reactions ensure that we supply catalyst of constant, high quality. However, before the product is even finished, quality is being assessed and checked. Our improved manufacturing processes use sophisticated tools and methods – such as statistical process control – to make the most consistent catalyst on the market today.



For further information on Johnson Matthey Catalysts, contact your local sales office or visit our website at www.jmcatalysts.com.

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