

# Global Formaldehyde & Resin Technologies

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# The One Stop Shop for the Formaldehyde Industry

Global Formaldehyde & Resin Technologies represents a consortium of companies from around the world who provide leading edge technology to the formaldehyde and resins industry. For the first time both formaldehyde producers and formaldehyde consumers can now access a complete solutions package which encompasses all aspects of formaldehyde synthesis, formaldehyde storage and downstream applications.

Our product range includes catalysts, technical service & support, plant design & construction, plant troubleshooting, formaldehyde stabilizers and resins for the wood industry. All of these technologies are backed up with the benefits of our extensive industrial experience and continuous support to ensure the customer the optimum result every time.

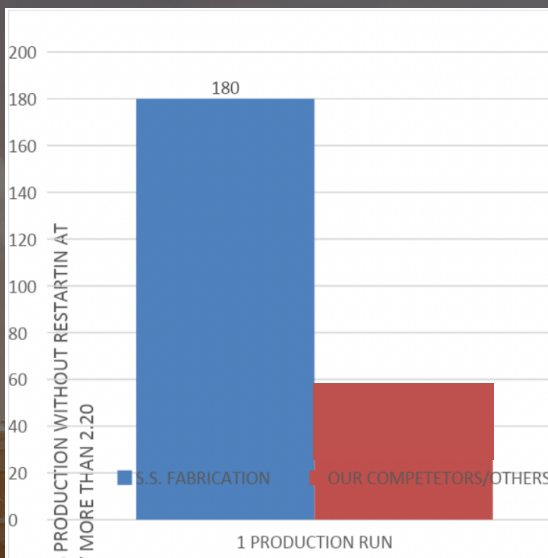




# Formaldehyde Plant Design, Construction & Revamping

SS FABRICATION offers a comprehensive range of formaldehyde plant designs to meet your production requirements. Formaldehyde yields are optimal due to the unique combination of our experience relating to catalysts, process engineering, plant design, construction and operation.

Formaldehyde concentrations from 37 to 55 % are routinely made using our processes with methanol contents to meet your strictest specifications.





# Formaldehyde Plant Troubleshooting

S.S. FABRICATION personnel have many years of industrial experience associated with formaldehyde plant operation. As part of our commitment to optimising plant performance we visit the formaldehyde plant site and offer the following services:

## Audit of Formaldehyde Plant:

- Filtration of feed components
- Inspection of pipework and plant metallurgy
- Vaporizer operation
- Function of components present
- Reactor configuration
- Cooling of product formaldehyde
- Absorber configuration

## Catalyst Start-Up Procedures:

- Examination of current start-up method
- Information as to benefits and disadvantages of various methods
- Recommendation as to how to optimise this critical event

## Optimization of plant operating parameters:

- Air/methanol and steam/methanol ratios
- Effect of plant rate upon performance
- Catalyst bed temperature
- Product composition and means of improving

## Plant personnel tuition:

- Tutorial regarding formaldehyde production essentials
- Explanation of fundamental chemistry involved



# Silver Catalyst: Technical Service

Global Formaldehyde Technologies not only supplies an optimal silver catalyst but also uniquely provides in depth technical support and service to ensure the best performance for the customer.

The following topics are all included in our silver catalyst package to the formaldehyde producer:



Reactor Configuration

Design of silver catalyst bed

Optimization of gauze support configuration

Laying a Catalyst Bed

Complete step-by-step guide to catalyst installation

Inspection of Operating Catalyst Bed

Tuition as to what features to look for on the catalyst bed

How to interpret observations

What can be done to improve plant performance

Optimisation of Plant Performance:

Examination of plant data

Indication of what problems data suggests may be present

Sampling and Analysis of Used Catalyst Beds:

Guidance as to how to sample used beds correctly

Analysis of catalyst bed samples by means of Scanning Electron Microscopy (SEM) and Energy Dispersive Spectroscopy (EDS)

Report complete with recommendations for improvement sent to customer



