



SARV Oil & Gas Industries Development Co.



Company Overview

Sarv Oil & Gas Industries Development Company is the first and largest catalyst producer in Iran. Also this knowledge-based private company achieved the GTL process technical knowledge in 2010 and established three barrels per day GTL demo plant in the same year. SARV has produced and developed different types of high quality catalysts on industrial scales, based on the knowledge of Iranian scientists and experts, during the last 15 years. The catalysts exhibited brilliance performance in synthesis gas production plants and received satisfactory comments from our customers. Now SARV is a pioneer brand in petrochemical, oil refining and Steel industrie in iran.

A scientist in a white lab coat is working in a laboratory. The scientist is leaning over a lab bench, handling glassware. On the bench, there are several glass bottles and flasks, some containing liquids. The background shows laboratory equipment and shelves with more glassware. The overall scene is a professional laboratory setting.

Catalyst Research Center

Researches in SARV advanced catalysis research center include: catalyst synthesis and modification, physico-chemical characterization and testing under industrial relevant conditions. The center is one of the most advanced catalysis research groups in Iran. The center has excellent relations and warm collaborations with academic groups and related industries. The research center has been equipped by high technology equipment and instruments enabling it to find the optimum operating conditions for its produced catalyst and offers some technical instructions and procedures to enhance the catalyst performance in industrial plants. Some of our capabilities in SARV advanced research center are including:

1. Investigation of physical and chemical properties of various catalysts and adsorbents.
2. Catalytic performance assessment of various catalytic processes, under different operational conditions.
3. Proposing the best catalysts for special process and define the optimal operation conditions.
5. Scaling up the Catalyst production
6. Modelling and simulation of various catalytic processes.

Equipment and Instruments for Catalyst Characterization



Tristar II Surface Area Analyzer

- Single and multipoint BET surface area
- Total pore volume
- Langmuir surface area and Isotherm reports
- BJH adsorption and desorption



KAMBERT Mini Rotary Press (R&D)

- Laboratory scale rotary press for shaping and tableting



High Temperature Furnace

- Different types of programming high temperature electrical furnaces

Equipment and Instruments for Catalyst Characterization



Micromeritics chemisorb 2750

- Temperature Programmed Reduction (TPR)
- Temperature Programmed Oxidation (TPO)
- Temperature Programmed Desorption (TPD)
- Pulsed chemisorption
- Physisorption



Atomic absorption

- Determination of metal elements



Cold Crushing Strength Instrument

- Strength analyzing of catalysts and ceramic materials



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