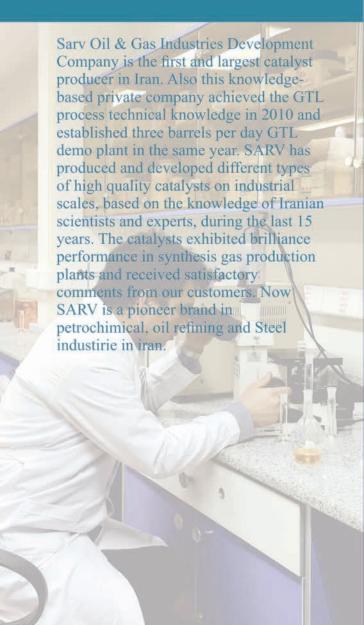


# SARV Oil & Gas Industries Development Co.



## **Company Overview**



## **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 senter 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

adsorbents.

2. Catalytic performance assessment of various catalytic processes, under different operational conditions.

properties of various catalysts and

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



## Atomic absorption - Determination of metal elements



### Cold Crushing Strength

- Strength analyzing of catalysts and ceramic materials





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