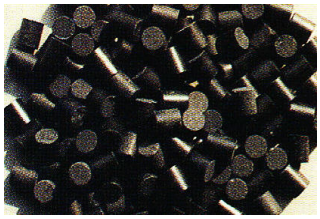

J-CHEM 705

METHANATION CATALYST

A high activity catalyst for the conversion of carbon oxides in synthesis gas and process gas streams.

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

A. CATALYST DESCRIPTION

Designation	***J-CHEM*** 705
Form	Grey black tablets
Size	Ø5×4.5~5.5mm or by request

B. TYPICAL CHEMNICAL COMPOSITION (%wt)

Nickel oxide	＞21.0
Base	Alumina

C. PHYSICAL PROPERTIES

Bulk density	1.0-1.2 Kg/L
Surface area	>100 m^2/g
Crush strength	>18 Kg
Pore volume	0.2-0.3ml/g

D. OPERATING CONDITIONS:

Pressure:	atmosphere~8Mpa
Space velocity:	3000~8000 h^{-1}
Temperature:	270~425℃
Inlet $CO+CO_2$ content:	less than 1%
Outlet $CO+CO_2$ content:	less than 5~10ppm

J-CHEM 706

METHANATION CATALYST

A high activity catalyst for the conversion of carbon oxides in synthesis gas and process gas streams.

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

A. CATALYST DESCRIPTION

Designation	***J-CHEM 706***
Form	Dark green spheres
Size	Ø 4-6 or 5-8mm

B. TYPICAL CHEMNICAL COMPOSITION (%wt)

Nickel oxide	above 16.0
Base	Alumina and TiO2 carrier

C. PHYSICAL PROPERTIES

Bulk density	0.9±0.1 Kg/L
Surface area	>120 m^2/g
Crush strength	>5 Kg
Pore volume	-0.4 ml/g

D. OPERATING CONDITIONS:

Pressure:	atmosphere~10Mpa
Space velocity:	2000~8000 h^{-1}
Temperature:	230~460℃
Inlet $CO+CO_2$ content:	less than 0.7%
Outlet $CO+CO_2$ content:	less than 5~10ppm