



J-CHEM305

DESULPHURIZATION MATERIAL

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

A low density desulphurization absorbent for the removal of hydrogen sulphide and low molecular weight sulphur compounds from gaseous and liquid petroleum feedstock at elevated temperatures.

1. MATERIAL DESCRIPTION

Designation	<i>J-CHEM305</i>
Form	White or Yellowish Extrudate
Size	ϕ 4 × 4-15 mm

2. TYPICAL COMPOSITION (%wt)

Zinc oxide	95
Binder	5

3. PHYSICAL PROPERTIES

Bulk density	1.10 - 1.30 Kg/l
Crush strength	>40 N/cm
Surface area	>30 m ² /g
Pore volume	0.35 - 0.40 ml/g
Attrition	<5%
Breakthrough S pickup(220℃)	≥ 20%
Breakthrough S pickup(350℃)	≥ 35%

4. OPERATION CONDITION

Vessel Height/Dia	>3.0
Pressure	~4.0 MPa
Temperature	200~400℃
Steam/gas ratio	0~1
Space Velocity	1000~3000 h ⁻¹ with gas feed 1~6 h ⁻¹ with liquid feed
Outlet S content	< 0.1ppm



J-CHEM305Q

DESULPHURIZATION MATERIAL

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

A low density desulphurization absorbent for the removal of hydrogen sulphide and low molecular weight sulphur compounds from gaseous and liquid petroleum feedstock at elevated temperatures.

1. MATERIAL DESCRIPTION

Designation	<i>J-CHEM305Q</i>
Form	White or Yellowish Spheres
Size	φ 3 - 5mm

2. TYPICAL COMPOSITION (%wt)

Zinc oxide	95
Binder	5

3. PHYSICAL PROPERTIES

Bulk density	1.20 - 1.30 Kg/l
Crush strength	>25 N/cm
Surface area	30 - 40 m ² /g
Pore volume	0.35 - 0.40 ml/g
Attrition	<5%
Breakthrough S pickup(220℃)	≥ 21%
Breakthrough S pickup(350℃)	≥ 35%

4. OPERATION CONDITION

Vessel Height/Dia	>3.0
Pressure	~4.0 MPa
Temperature	200~400℃
Steam/gas ratio	0~1
Space Velocity	1000~3000 h ⁻¹ with gas feed 1~6 h ⁻¹ with liquid feed
Outlet S content	< 0.1ppm



J-CHEM 314Q

DESULPHURIZATION MATERIAL

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

Desulphurization absorbent for the removal of hydrogen sulphide and low molecular weight sulphur compounds from gaseous and liquid petroleum feedstock at elevated temperatures.

1. MATERIAL DESCRIPTION

Designation	<i>J-CHEM 314Q</i>
Form	Spheres
Size	3 - 5 mm

2. TYPICAL COMPOSITION (%wt)

Zinc oxide	90
Binder	10

3. PHYSICAL PROPERTIES

Bulk density	1.35-1.45 Kg/l
Crush strength	>38 N/cm
Surface area	>30 m ² /g
Pore volume	>0.3 ml/g
Attrition	<3%
Breakthrough S pickup(350℃)	≥ 30%

4. OPERATION CONDITION

Vessel Height/Dia	>2.5
Pressure	~4.0 MPa
Temperature	200~400℃
Steam/gas ratio	0~1
Space Velocity	1000~3000 h ⁻¹ with gas feed 1~6 h ⁻¹ with liquid feed
Outlet S content	< 0.1ppm



J-CHEM308

**HIGH CAPACITY DESULPHURISATION MATERIAL
TYPICAL CHEMICAL AND PHYSICAL PROPERTIES**

A desulphurization absorbent for the removal of hydrogen sulphide and low molecular weight sulphur compounds from gaseous and liquid petroleum feedstock at elevated temperatures.

1. MATERIAL DESCRIPTION

Designation	<i>J-CHEM308</i>
Form	Extrudate
Size	ϕ 4 × 4-15 mm

2. TYPICAL COMPOSITION (%wt)

Zinc oxide	90.0
------------	------

3. PHYSICAL PROPERTIES

Bulk density	1.15 - 1.25 Kg/l
Crush strength	>38 N/cm
Surface area	>40 m ² /g
Pore volume	>0.4 ml/g
Attrition	<3%
Breakthrough S pickup(350℃)	≥ 30%

4. OPERATION CONDITION

Vessel Height/Dia	>2.5
Pressure	~4.0 MPa
Temperature	80~400℃
Steam/gas ratio	0~1
Space Velocity	200~5000 h ⁻¹ with gas feed
Outlet S content	< 0.06ppm