

## PSR Sulfur Recovery Catalyst



*Illustration 1: PSR Sulfur Recovery Catalyst(KPK-PSR1)*



*Illustration 2: PSR Sulfur Recovery Catalyst(KPK-PSR31)*

PSR Sulfur Recovery Catalyst is used to treat with the acid gases containing  $H_2S$  for the sake of recovery sulfur element and environmental protection in oil refinery, chemical factory, iron & steel plant and natural gas treatment processes. The conversion of sulfur can reach to 65-75% in a ordinary burner, 92-96% in two stages Claus process, 98% in tree stages Claus process, furthermore to high than 99.8% if Claus tail gas treats with Reduction-Adsorption process.

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**Main items/types:**

PSR Sulfur Recovery Catalyst (PSR-1)  
 PSR Sulfur Recovery Catalyst (PSR-31)  
 PSR Sulfur Recovery Catalyst (PSR-41)  
 PSR Sulfur Recovery Catalyst (PSR-51)

**Technical Specification:**

ITEM	PSR-1	PSR-31	PSR-41	PSR-51
Size & Shape (mm)	Φ 4~6 pellet	Φ 4x5~15 bead	Φ 4~6 pellet	Φ 3x4~15 trifolium
Color	White	White	Brown	Blue
Main content (%)	Al <sub>2</sub> O <sub>3</sub> >93 Na <sub>2</sub> O<0.3	TiO <sub>2</sub> >85	Al <sub>2</sub> O <sub>3</sub> >80 Or Fe <sub>2</sub> O <sub>3</sub> >5	CoO>2.5 MoO <sub>3</sub> >10
Bulk density (g/ml)	0.65~0.72	0.85~1.0	0.70~0.82	0.60~0.70
Active surface (m <sup>2</sup> /g)	>300	>100	>260	>260
Pore volume (ml/g)	>0.40	>0.20	>0.30	>0.40
Crushing strength (N)	>150	>100	>130	>150
Abrasion loss (%)	≤0.5	≤1	≤0.5	≤1.0
Major function	Universal catalyst for sulfur recovery in acid gas	Catalyst with high sulfate resistance and conversion	Catalyst with protection of oxygen leakage	Catalyst for tail gas hydrotreatment

**Other pictures:**

*Illustration 3: PSR Sulfur Recovery Catalyst(KPK-PSR41)*



*Illustration 4: PSR Sulfur Recovery Catalyst(KPK-PSR51)*

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