

Supplementary Materials

The effect of accessibility to acid sites in Y zeolites on ring opening reaction in light cycle oil hydrocracking

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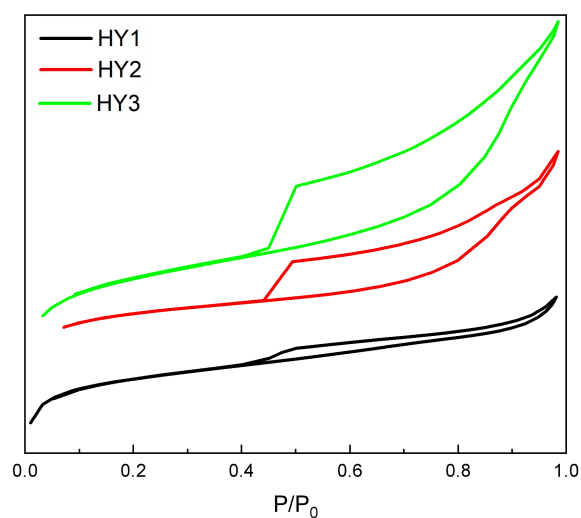
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Supplementary Table 1. Physical and chemical properties of HY zeolites

Zeolite	Cell constant/nm	Relative crystallinity/%	content/%		
			Na ₂ O	Al ₂ O ₃	SiO ₂
HY1	2.4643	87.5	0.14	24.6	74.7
HY2	2.4571	89.2	0.08	19.5	79.7
HY3	2.4395	76.6	0.07	13.2	84.9

Supplementary Table 2. The catalyst composition measured by XRF

Catalyst	Mass content /%		
	NiO	MoO ₃	P ₂ O ₅
C1	2.8	15.1	3.0
C2	2.9	15.0	3.0
C3	2.9	15.1	3.0



Supplementary Figure 1. Adsorption isotherm of HY zeolite.