

Product Categories Of Downstream Procurement

Category	Major products	% of annual spend	Competitiveness of Chinese supply
Steel	<ul style="list-style-type: none"> • Roll Steel, tube 	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • High
Equipment	<ul style="list-style-type: none"> • Reactor, cooler, heat exchanger 	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • High
Parts/Consumables	<ul style="list-style-type: none"> • Compressor, pump, valve, drill bit 	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • High
Fuel	<ul style="list-style-type: none"> • Coal 	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • High
Inorganic chemicals	<ul style="list-style-type: none"> • Vitriol, nitric acid, hydrochloric acid • Sodium hydroxide, sodium carbonate 	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • Medium
Noble metal	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • Low
Catalyst, additive, etc.	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • XX 	<ul style="list-style-type: none"> • Low

Source: Growell Research

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REFINERY PROCESSING STEPS

