

## Catalyst Production and Shipment Statistics in 2016(Final)

(Unit: tons, ¥ 1 million, %)

Category		Item	2015	2016	2016/2015
Industrial Use	Hydrotreating (Including Desulfurization of Fuel Oil)	Production Volume	16,496	18,552	112
		Shipment Volume	16,107	17,969	112
		Shipment Value	15,550	17,736	114
	Other Petroleum Refining	Production Volume	29,557	33,144	112
		Shipment Volume	28,706	32,477	113
		Shipment Value	9,388	10,519	112
	Petroleum Refining	Production Volume	46,053	51,696	112
		Shipment Volume	44,813	50,446	113
		Shipment Value	24,939	28,255	113
	Petrochemical	Production Volume	17,776	18,981	107
		Shipment Volume	15,904	17,225	108
		Shipment Value	62,812	51,461	82
	Polymerization	Production Volume	13,655	14,520	106
		Shipment Volume	13,193	13,740	104
		Shipment Value	23,277	23,067	99
	Oil & Fats Processing Pharmaceuticals & Food Production	Production Volume	495	397	80
		Shipment Volume	473	422	89
		Shipment Value	1,582	1,501	95
	Other Technical Grade (Inorganic Gas, Atmospheric Gas etc.)	Production Volume	383	416	109
		Shipment Volume	364	356	98
		Shipment Value	1,900	1,794	94
Subtotal	Production Volume	78,362	86,010	110	
	Shipment Volume	74,747	82,189	110	
	Shipment Value	114,509	106,077	93	
Environmental Preservation	Automotive Exhaust	Production Volume	9,908	9,944	100
		Shipment Volume	10,804	10,987	102
		Shipment Value	200,548	176,264	88
	Other Environmental Preservation	Production Volume	9,099	7,099	78
		Shipment Volume	9,194	7,028	76
		Shipment Value	16,497	12,053	73
	Subtotal	Production Volume	19,007	17,043	90
Shipment Volume		19,998	18,015	90	
Shipment Value		217,044	188,316	87	
Total	Production Volume	97,369	103,053	106	
	Shipment Volume	94,745	100,204	106	
	Shipment Value	331,553	294,393	89	

Source: METI

## Catalyst Export and Import Statistics in 2016(Final)

## 〈 Export 〉

(Unit: tons, ¥ 1 million)

HS Number	Category	Item	2015	2016
3815.11-000	Supported Catalysts: with nickel or nickel compounds as the active substance	Volume	8,279	9,241
		Value	10,900	9,899
3815.12-000	Supported Catalysts: with precious metal or precious metal compounds as the active substance	Volume	3,041	3,812
		Value	47,049	41,845
3815.19-000	Supported Catalysts: Other Catalysts	Volume	24,553	24,611
		Value	39,168	38,958
3815.90-000	Reaction Initiators, Reaction Accelerators and Catalytic Preparations (excluding supported catalysts)	Volume	15,319	17,328
		Value	23,110	22,047
Export Total		Volume	51,192	54,992
		Value	120,227	112,748

Source: MOF

## 〈 Import 〉

(Unit: tons, ¥ 1 million)

HS Number	Category	Item	2015	2016
3815.11-000	Supported Catalysts: with nickel or nickel compounds as the active substance	Volume	2,578	3,236
		Value	4,493	4,498
3815.12-100	Supported Catalysts: Platinum Catalysts	Volume	516	439
		Value	6,487	4,060
3815.12-210	Supported Catalysts: Automotive Exhaust Catalysts, with precious metal or precious metal compounds	Volume	1,129	1,303
		Value	19,879	18,431
3815.12-220	Supported Catalysts: Other Catalysts, with precious metal or precious metal compounds	Volume	55	243
		Value	1,043	2,776
3815.19-100	Supported Catalysts: Iron Catalysts	Volume	27	21
		Value	18	24
3815.19-210	Supported Catalysts: Silica-Alumina Catalysts	Volume	3,015	2,842
		Value	1,361	1,599
3815.19-290	Supported Catalysts: Other Catalysts	Volume	16,509	15,793
		Value	10,491	8,524
3815.90-100	Iron Catalysts and Platinum Catalysts (not supported)	Volume	178	516
		Value	507	770
3815.90-200	Silica-alumina Catalysts (not supported)	Volume	6	6
		Value	17	9
3815.90-310	Other Catalysts (not supported)	Volume	5,709	3,705
		Value	4,279	3,016
3815.90-390	Reaction Initiators and Reaction Accelerators	Volume	847	691
		Value	994	929
Import Total		Volume	30,568	28,795
		Value	49,569	44,636

Source: MOF