



# Global Steel Trade Monitor

## Steel Imports Report: South Korea

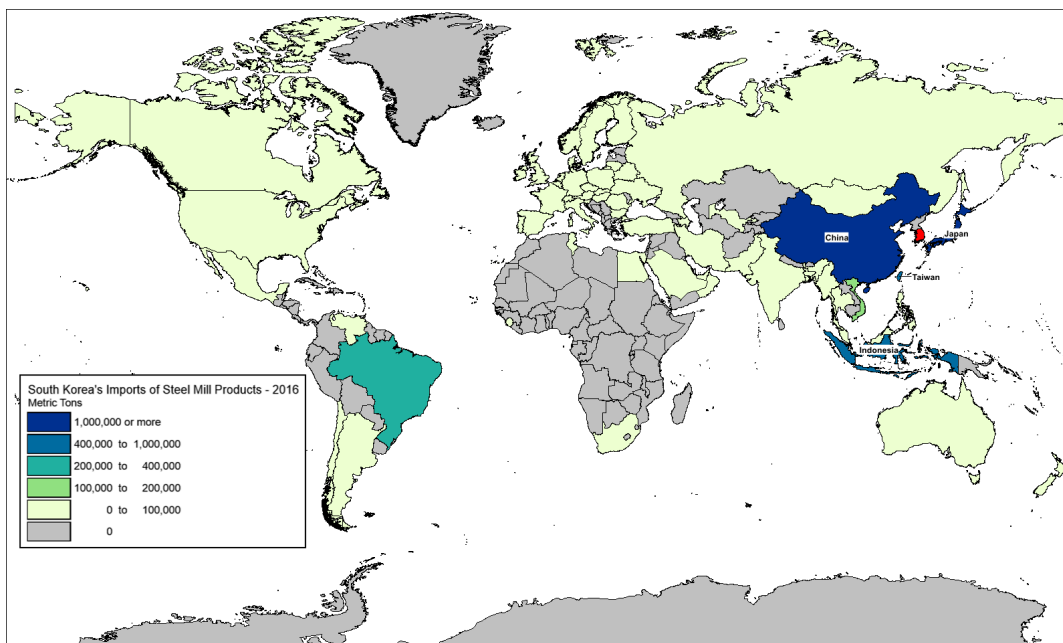
March 2017

### Background

South Korea is the world's third-largest steel importer. In 2016, South Korea imported 23.1 million metric tons of steel – an 8 percent increase from 21.5 million metric tons in 2015. South Korea's imports represented 6 percent of all steel imported globally in 2015, based on available data. South Korea's 2016 steel imports were roughly 75 percent the size of the largest steel importer, the United States. In value terms, steel represented just 3 percent of the total amount of goods imported into South Korea in 2016.

South Korea imports steel from over 75 countries and territories. The four countries labeled in the map below represent the top import sources for South Korea's imports of steel, with each sending more than 400 thousand metric tons and together accounting for 96 percent of South Korea's steel imports in 2016.

South Korea's Imports of Steel Mill Products - 2016



Data Source: Global Trade Atlas; Copyright © IHS Global Inc. 2017. All rights reserved.

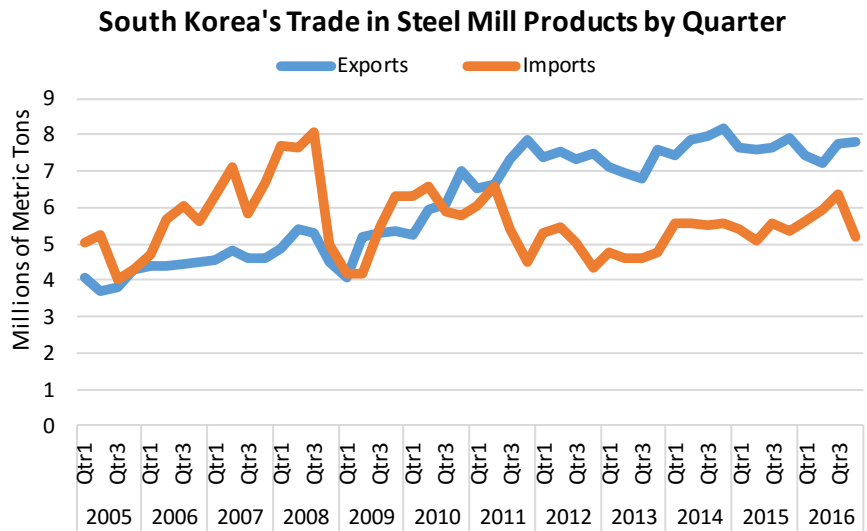
### Quick Facts:

- World's third-largest steel importer: 23.1 million metric tons (2016)
- 15% steel import growth since 2009
- Import penetration down from 41.3% in 2009 to 37.6% in 2016
- Year-on-year import volume up 8% while import value down 8%
- Top three import sources: China, Japan, and Indonesia
- Largest producers: POSCO and Hyundai Steel Co.
- 5 trade remedies in effect against imports of steel mill products

# Steel Imports Report: South Korea

## Steel Trade Balance

Prior to 2009, South Korea had a trade deficit in steel products. Imports fell in 2009, bringing steel exports and imports into balance. Between 2009 and 2016, South Korea's exports increased 52 percent, significantly outpacing imports which, over the same period, increased by 15 percent. As such, South Korea has posted a steel trade surplus since Q3 2010, amounting to 7.2 million metric tons in 2016.

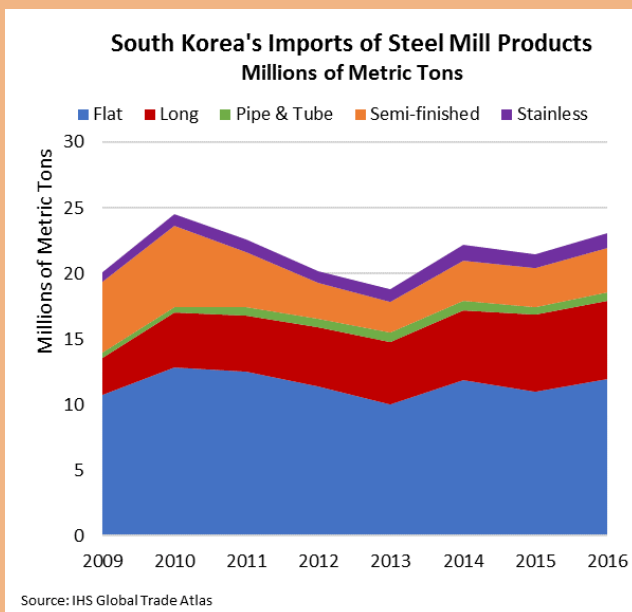


Source: IHS Global Trade Atlas

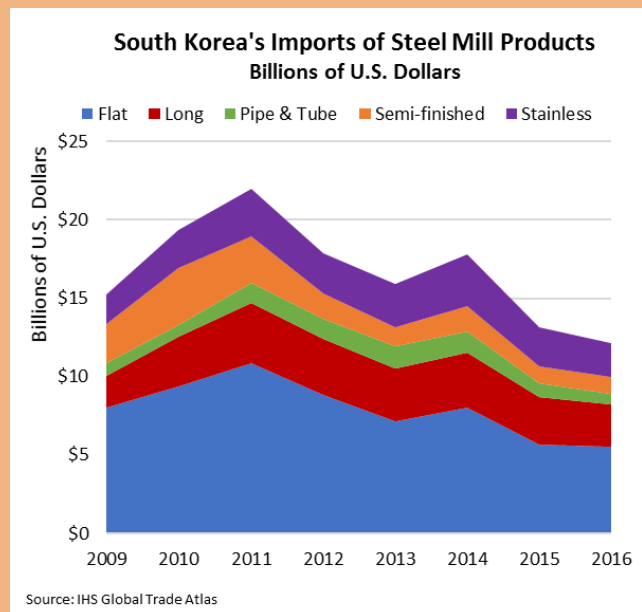
## Import Volume, Value, and Product

The volume of South Korea's steel imports decreased nearly every year between 2010 and 2015. In 2016, however, imports increased by 8 percent to 23.1 million metric tons from 21.5 million metric tons in 2015. By contrast, the value of South Korea's 2016 imports declined by 8 percent to \$12.1 billion from \$13.2 billion in 2015, which can be attributed to a significant drop in global steel prices.

Flat products account for just over half of South Korea's steel imports. In 2016, South Korea imported 11.9 million metric tons of flat products — 52 percent of imports. Long products accounted for 26 percent, or 6 million metric tons, of South Korea's steel imports in 2016, followed by semi-finished steel (15% or 3.4 million metric tons), stainless steel (5% or 1.1 million metric tons), and pipe and tube products (3% or 593 thousand metric tons).



Source: IHS Global Trade Atlas



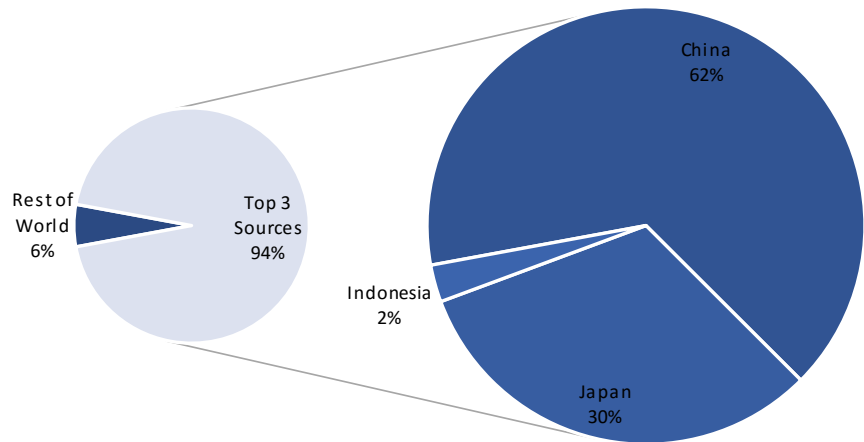
Source: IHS Global Trade Atlas

# Steel Imports Report: South Korea

## Imports by Top Source

The top 3 source countries for South Korea's steel imports represented 94 percent of the total steel import volume in 2016 at 21.8 million metric tons (mmt). China accounted for the largest share of South Korea's imports by source country at 62 percent (14.2 mmt), followed by Japan at 30 percent (6.9 mmt) and Indonesia at 3 percent (0.6 mmt).

**South Korea's Steel Imports - Top 3 Sources**  
2016 - Millions of Metric Tons



The United States ranked 16th as a source for South Korea's imports in 2016. South Korea imported 20.9 thousand metric tons from the U.S. in 2016 — a 13 percent decline from 24.1 thousand metric tons in 2015.

Source: IHS Global Trade Atlas

## Trends in Imports from Top Sources

While the volume of South Korea's steel imports increased from eight of South Korea's top ten steel import sources between 2015 and 2016, the overall value of South Korea's imports decreased from six of the top ten, reflecting the decline in global steel prices.

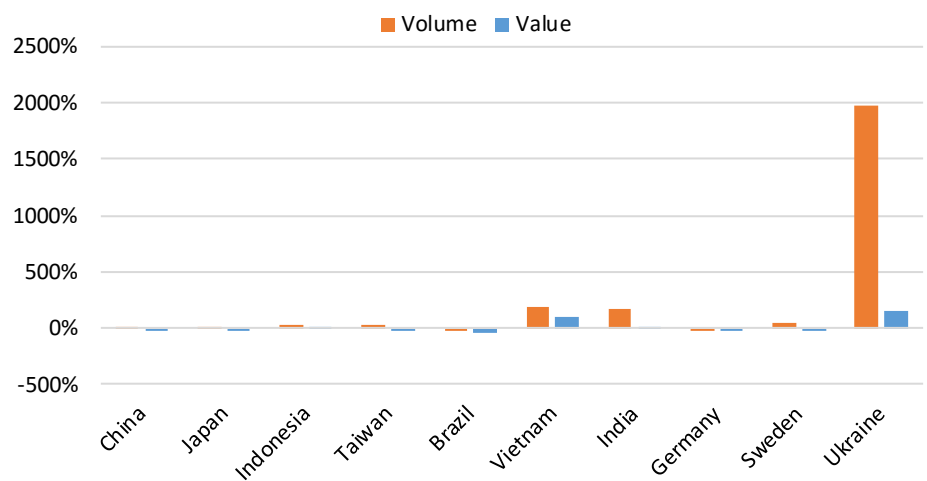
Considerable decreases in steel value between 2015 and 2016 included South Korea's imports from Brazil (down 44.8%), Germany (down 17.2%), Japan (down 10.4%), and Sweden (down 10.4%). The largest increases in value during the same period occurred from Ukraine (up 155.3%), Vietnam (up 93.6), and Indonesia (up 12.7%).

Imports from Ukraine and Vietnam also showed the largest increase in volume, up 1,981 percent and 180.4 percent, respectively, followed closely by imports from India (up 167.3%).

The only decreases in the volume of South Korea's imports occurred from Germany and Brazil, down 9.1 percent and 6.2 percent, respectively, from 2015.

Outside the top 10 import sources, other significant changes in South Korea's import volume included imports from France (down 43.6%), Australia (up 57.1%), and Luxembourg (up 199.5%).

**Percent Change in Imports from Top 10 Sources (2015 to 2016)**



Source: IHS Global Trade Atlas

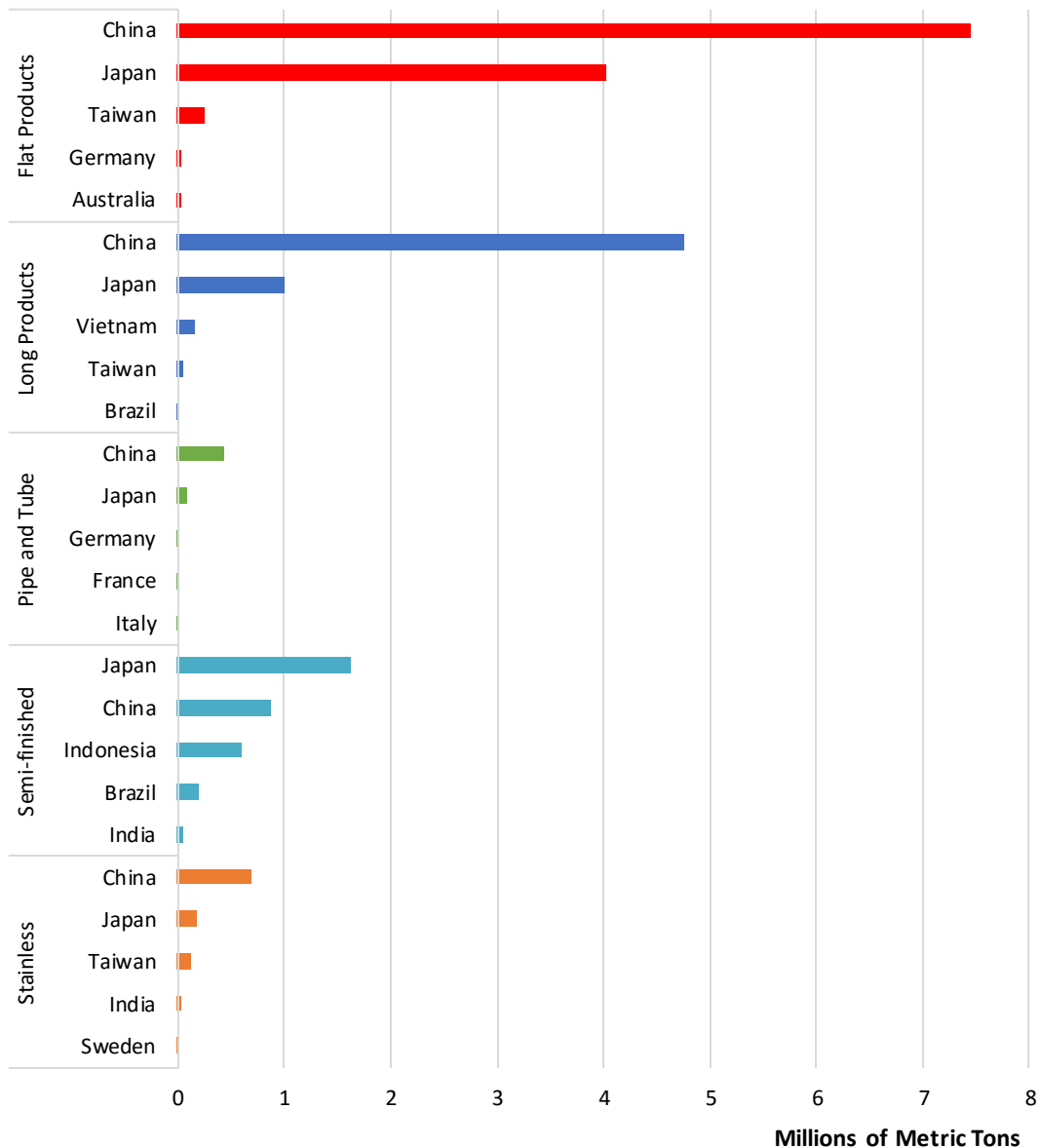
# Steel Imports Report: South Korea

## Top Sources by Steel Product Category

South Korea's top import sources by volume vary across types of steel products, though China and Japan hold the first and second spots for all products. In 2016, China accounted for the largest share of South Korea's imports of flat products at 63 percent (7.5 million metric tons), long products at 79 percent (4.8 million metric tons), pipe and tube products at 74 percent (439 thousand metric tons), and stainless products at 61 percent (691 thousand metric tons).

Japan accounted for the largest share of South Korea's semi-finished imports in 2016 at 48 percent (1.6 million metric tons) and the second-largest share of South Korea's imports of flat products at 34 percent (4 million metric tons), long products at 17 percent (1 million metric tons), pipe and tube at 16 percent (92 thousand metric tons), and stainless products at 16 percent (184 thousand metric tons).

**South Korea's Top 5 Import Sources by Product - 2016**



Source: IHS Global Trade Atlas

# Steel Imports Report: South Korea

## South Korea's Export Market Share from Top Source Countries

In 2015, the share of steel exports sent to South Korea from its top import sources decreased or remained the same in all cases except exports from Indonesia and Taiwan. In 2015, the share of Indonesia's steel exports to South Korea increased 10.1 percentage points, while Taiwan's increased 0.2 percentage points.

Countries with notable decreases in their share of steel exports to South Korea included China (down 1.9 percentage points from 2014), Brazil (down 1.4 percentage points), and Japan (down 1.3 percentage point).

Among South Korea's top import sources, China, Japan, and Indonesia sent the largest shares of their steel exports to South Korea. Flat products accounted for the largest share of steel exports to South Korea

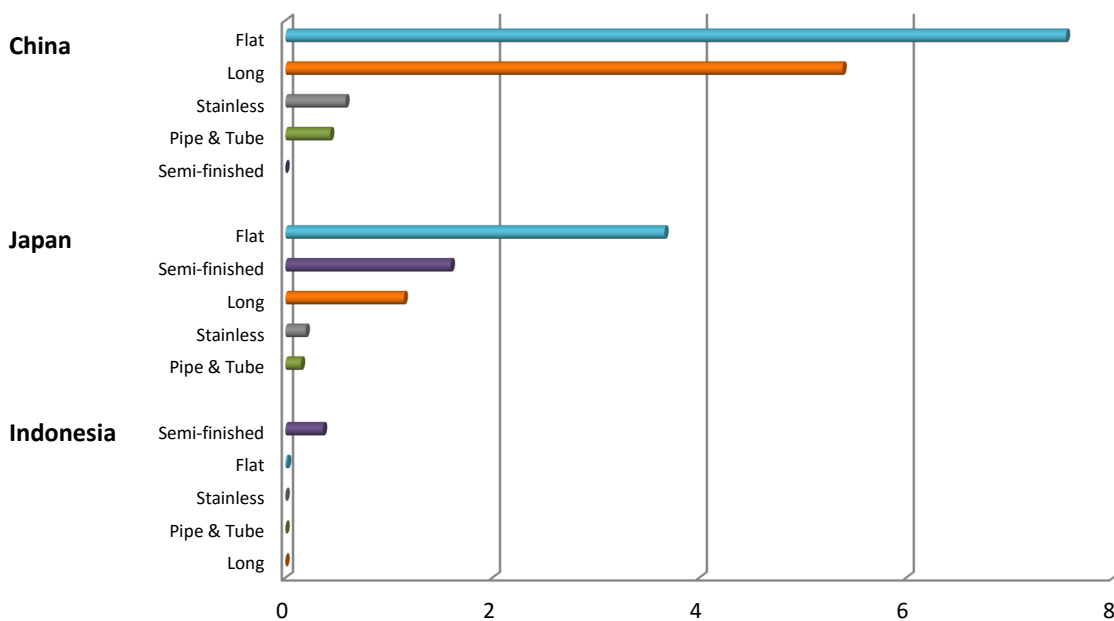
from China and Japan in 2015, at 54 percent each (7.5 million metric tons and 3.7 million metric tons, respectively). Nearly all of Indonesia's exports to South Korea consisted of semi-finished steel in 2015, at 95 percent (363 thousand metric tons).

South Korea's Steel Export Market Share				
Top 10 Import Sources	Share of Exports to S. Korea - 2014	South Korea's Rank in 2014	Share of Exports to S. Korea - 2015	South Korea's Rank in 2015
China	14.1%	1	12.2%	1
Japan	17.4%	1	16.1%	1
Indonesia	9.2%	5	19.3%	2
Taiwan	3.1%	10	3.3%	9
Brazil	3.4%	6	2.0%	11
Germany	0.3%	33	0.3%	33
Vietnam	1.8%	11	N/A	N/A
France	0.4%	26	0.4%	26
Russia	1.2%	20	0.2%	50
Belgium	0.6%	20	0.3%	25

Source: IHS Global Trade Atlas, based on import data per reporting country

Note: 2015 data for Vietnam not available

## Steel Export Composition of Top Market-Share Countries - 2015



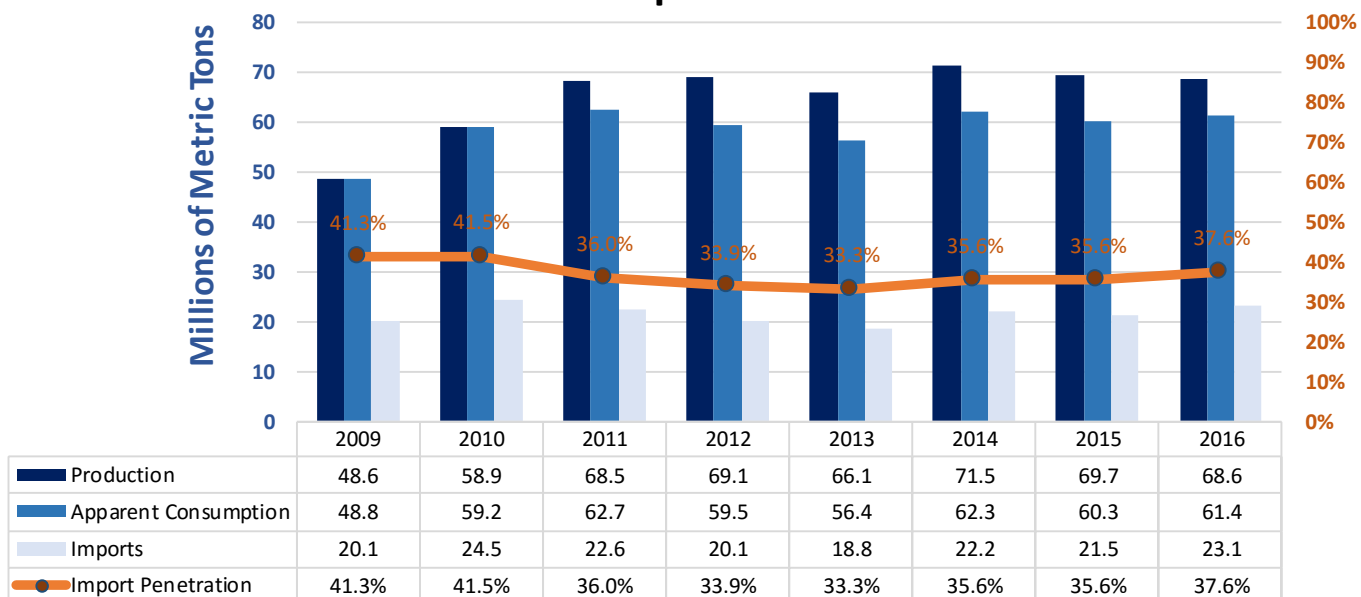
Source: IHS Global Trade Atlas, based on import data per reporting country

Millions of Metric Tons

# Steel Imports Report: South Korea

## Overall Production and Import Penetration

### South Korea's Import Penetration



Sources: World Steel Association; IHS Global Trade Atlas

Between 2009 and 2012, South Korea's crude steel production grew by 42 percent. Since 2012, South Korea's production fluctuated, but decreased overall by 1 percent to 68.6 million metric tons in 2016. 2016 production was down 2 percent from 2015. Apparent consumption (a measure of steel demand) went from being in balance with production in 2009 and 2010 to falling behind production by 7.2 million metric tons in 2016. The gap between production and apparent consumption narrowed by 2.2 million metric tons between 2015 and 2016. Between 2009 and 2016, South Korea's import penetration decreased 3.7 percentage points from 41.3 percent to 37.6 percent.

### Top Producers

South Korea's steel production is concentrated among a small number of companies, with the country's top 3 producers accounting for 65.8 million metric tons, or 94 percent, of total 2015 production, based on available data.

South Korea's Top Steel Producers in 2015			
Rank	Company	Production (mmt)	Main Products
1	POSCO	42	Hot-rolled, cold-rolled, plate, stainless, electrical, wire rods
2	HYUNDAI Steel Company	20.5	Beams, reinforcing bars, hot-rolled, plates
3	Dongkuk Steel Mill Co, Ltd	3.3	Plates, sections, bars

Source: World Steel Association; Hoovers; MarketLine

# Steel Imports Report: **South Korea**

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## **Trade Remedies in the Steel Sector**

Antidumping duties (AD), countervailing duties (CVD), associated suspension agreements, and safeguards are often referred to collectively as trade remedies. These are internationally agreed upon mechanisms to address the market-distorting effects of unfair trade, or serious injury or threat of serious injury caused by a surge in imports. Unlike anti-dumping and countervailing measures, safeguards do not require a finding of an “unfair” practice. Before applying these duties or measures, countries investigate allegations and can remedy or provide relief for the injury caused to a domestic industry. The table below provides statistics on the current number of trade remedies the South Korea has against imports of steel mill products from various countries. South Korea has no steel mill safeguards in effect.

<b>South Korea’s Trade Remedies in Effect Against Steel Mill Imports</b>				
<b>Country</b>	<b>AD</b>	<b>CVD</b>	<b>Suspension Agreements and Undertakings</b>	<b>Total</b>
China	1			1
India	1			1
Japan	2			2
Spain	1			1
<b>TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>

Source: World Trade Organization, through December 1, 2016

# Steel Imports Report: Glossary

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**Apparent Consumption:** Domestic crude steel production plus steel imports minus steel exports. Shipment data are not available for all countries, therefore crude steel production is used as a proxy.

**Export Market:** Destination of a country's exports.

**Flat Products:** Produced by rolling semi-finished steel through varying sets of rolls. Includes sheets, strips, and plates. Used most often in the automotive, tubing, appliance, and machinery manufacturing sectors.

**Import Penetration:** Ratio of imports to apparent consumption.

**Import Source:** Source of a country's imports.

**Long Products:** Steel products that fall outside the flat products category. Includes bars, rails, rods, and beams. Used in many sectors but most commonly in construction.

**Pipe and Tube Products:** Either seamless or welded pipe and tube products. Used in many sectors but most commonly in construction and energy sectors.

**Semi-finished Products:** The initial, intermediate solid forms of molten steel, to be re-heated and further forged, rolled, shaped, or otherwise worked into finished steel products. Includes blooms, billets, slabs, ingots, and steel for castings.

**Stainless Products:** Steel products containing at minimum 10.5% chromium (Cr) offering better corrosion resistance than regular steel.

**Steel Mill Products:** Carbon, alloy, or stainless steel produced by either a basic oxygen furnace or an electric arc furnace. Includes semi-finished steel products and finished steel products. For trade data purposes, steel mill products are defined at the Harmonized System (HS) 6-digit level as: 720610 through 721650, 721699 through 730110, 730210, 730240 through 730290, and 730410 through 730690. The following discontinued HS codes have been included for purposes of reporting historical data (prior to 2007): 722520, 722693, 722694, 722910, 730410, 730421, 730610, 730620, and 730660.

**Global Steel Trade Monitor:** The monitor provides global import and export trends for the top countries trading in steel products. The current reports expand upon the early release information already provided by the Steel Import Monitoring and Analysis (SIMA) system that collects and publishes data on U.S. imports of steel mill products. Complementing the SIMA data, these reports provide objective and current global steel industry information about the top countries that play an essential role in the global steel trade. Information in these reports includes global exports and import trends, production and consumption data and, where available, information regarding trade remedy actions taken on steel products. The reports will be updated quarterly.

**Steel Import Monitoring and Analysis (SIMA) System:** The Department of Commerce uses a steel import licensing program to collect and publish aggregate data on near real-time steel mill imports into the United States. SIMA incorporates information collected from steel license applications with publicly released data from the U.S. Census Bureau. By design, this information provides stakeholders with valuable information on the steel trade with the United States. For more information about SIMA, please go to <http://enforcement.trade.gov/steel/license/>.



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