

# Iodine:

## Global Industry Markets & Outlook

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### ARE YOU FACING BIG DECISIONS INVOLVING IODINE?

The market for iodine is global, and local events can make waves across the world. If you're involved with iodine in any way, you know that everything's important – both the small details and the big picture. A complete perspective is essential, whether you're preparing a company strategy, bringing product to market, buying, selling or investing.

### MAKE THE RIGHT CHOICE

Whatever your challenge, this report gives you deep insights to help you make well-informed recommendations or decisions. It's a detailed account of:

- World production and consumption
- End-use market applications
- Demand projections
- International trade patterns
- The operations of the major producers
- Potential new and expansion projects

### IS THIS REPORT FOR YOU?

Our clients include anyone with an interest in the evolving iodine market, anywhere in the world. Readers of past reports have come from a wide range of relevant industries – from extraction to end-use, from raw material producers to consumers to banks, from existing players to new entrants. And they range from analysts and researchers to operational managers and chief executives.

To order your report, visit [www.roskill.com/iodine](http://www.roskill.com/iodine) or call +44 20 8417 0087 now.

## WHAT READERS SAY

“When we review project or company opportunities, the most important area of review is the market place. We have always deferred to Roskill reports and their services for the prime benchmark reference point.”

Michael Kiernan,  
Consolidated Minerals Limited

“Roskill has been a key reference to our industry for a long time...the best reference about the market and industries.”

Bayram AnKarali  
Etimine SA, Turkey

“One of the few sources available for critical, detailed and reliable information on the industrial minerals markets.”

Emilio Lobato,  
Technical Marketing Manager,  
Magnesita Refratarios SA, Brazil

## GET ACCURATE ANSWERS FROM INDEPENDENT EXPERTS

- Who are the new iodine suppliers coming into the market?
- What has happened in Chile on the supply side?
- What are the main drivers of increased consumption in x-ray contrast media, biocides and pharmaceutical applications?
- What is the future of iodine use in LCD applications?
- How is corporate control of iodine split between producers?
- Is the iodine market going to stay balanced?
- Why did prices for iodine peak in 2011?

## WHY READERS CHOOSE ROSKILL

**We're approachable.** Our sources include a large network of industry contacts: the key players talk to us because we're approachable and because they know us well.

**We're independent.** The information and insights in “Iodine: Global Industry Markets & Outlook” are completely independent. We're privately-owned and not beholden to anyone. Our expert researchers make a thorough and objective analysis of all available data, from sources across the globe.

**We're expert.** You want facts from people who know what they're talking about. Roskill's experts have been analysing the iodine industry for over 30 years and this is our 11th report on this sector.

**This report gives you a full analysis of the key trends, issues and developments in the market, a clear insight into all areas of the industry and an authoritative analysis of its prospects.**

## Approachable. Independent. Expert.

That's why no other report can match the accuracy, depth and expertise of “Iodine: Global Industry Markets & Outlook”.

## WHAT ELSE CAN WE DO FOR YOU?

We also offer expert bespoke consultancy to help you tackle specific complex challenges, such as feasibility studies, market assessments or due diligence reports.

If you'd like to discuss a project, please email [robert@roskill.co.uk](mailto:robert@roskill.co.uk) or call +44 20 8417 0087.

## What's included?

Contents: 271 pages, 137 tables, 122 figures, plus trade appendix

## OVERVIEW

Iodine is used in a very diverse number of applications by a wide variety of industries. Around half, however, is used in applications directly related to human health, for example x-ray contrast media, iodophors (biocides) and pharmaceuticals. Most of the remainder is used in industrial applications such as optical polarising film (OPF) for liquid crystal displays (LCDs), catalysts, heat stabilisers and the production of fluorine derivatives.

**In 2012, global crude iodine production was estimated at around 28,700t** and was carried out in only nine countries: Chile, Japan, USA, China, Turkmenistan, Azerbaijan, Indonesia, Russia and Iran. Production is dominated by Chilean and Japanese companies, which accounted for an estimated 58% and 32% respectively of global output. An estimated third of Japanese iodine production is secondary so Chilean companies are the leading sources of crude iodine. The most important producer is SQM of Chile, which produces around a third of global crude iodine.

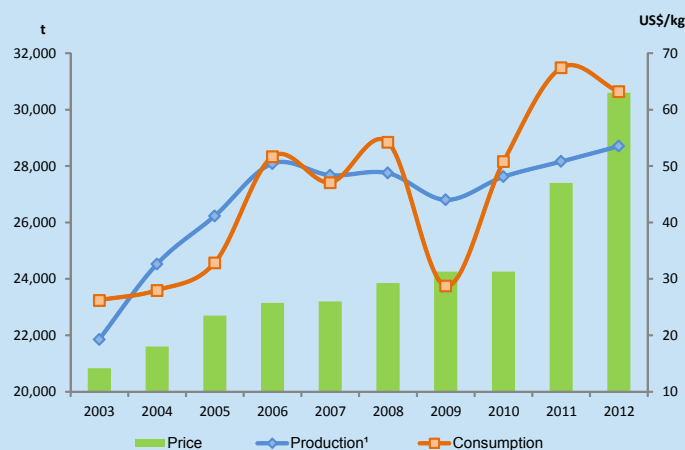
Regional consumption is highest in Asia followed by Europe and North America. **Around 75% of global consumption takes place in only ten countries** but is concentrated in Japan, USA and China.

During 2012 to 2017, **world demand for iodine is forecast to rise by an average of around 3.5%py and reach 36,300t**. The rise will be concentrated in the x-ray contrast media, OPF and biocide markets. Demand for iodine in OPF will continue to grow over the next five years but after then LCDs are expected to face increasing competition from technologies that do not use OPF such as OLED, a technology already used for smaller applications.

**Supply of crude iodine is expected to be more than sufficient to meet forecast demand**. The main reason for this is the recent increases in Chilean capacity by companies such as SQM, ACF Minera, Sirocco and SCM Bullmine. Japanese producers have no reported plans to increase capacity but may increase secondary iodine output.

Iodine prices were largely stable around US\$32/kg throughout 2010 and the beginning of 2011. In March of that year, prices went from US\$33/kg to US\$97.5/kg on the spot market because of the Japanese earthquake and later some seasonal production drop off in South America. A further factor was Cosayach of Chile idling a significant proportion of its capacity because of lack of water following the closure of illegal wells. Consumption continued to rise, for example in OPF, x-ray contrast media and biocides. As a consequence, the global market became tighter and prices rose. Prices softened in 2012 following new supplies coming into the market and continued to do so in the first quarter of 2013, falling to an average of US\$60/kg. The effect of rising primary and secondary capacity on prices is unclear but supply may exceed demand and they may face downward pressure.

**World: Trend in the production of magnesium, 2002-2012**



Note: 1- Crude iodine production including Japanese secondary production

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|---|--|---|
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- Additional copies priced at £760, US \$1220, €960 per copy

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## Any Questions?

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