Sputtering Targets and Sputtered Films: Technology and Markets

Description: Report Includes

- An overview of the global market for sputtering targets and sputtered films.
- Analyses of global market trends, with data from 2015, estimates for 2016, and projections of compound annual growth rates (CAGRs) through 2021.
- An update on the most advanced sputtering methods as well as emerging processes.
- An overview of materials commonly used for the fabrication of sputtering targets and identification of new materials to be used in the future.
- Highlights of new technological developments in the fabrication of sputtering targets while outlining technical issues.
- Trends in related U.S. patents and worldwide patents issued during the most recent years.
- Profiles of major players in the industry.

Report Scope

This report provides an updated review of sputtering technologies and a description of various types of sputtering targets and their fabrication methods; further, it identifies current and emerging applications for these technologies.

The researcher delineates the current market status for sputtering targets, defines trends and presents growth forecasts for the next five years. The sputtering target market is analyzed based on the following segments: application, material, and region. In addition, technological issues, including key events and the latest process developments, are discussed.

More specifically, the market analysis conducted for this report is divided into five sections.

In the first section (Chapter 3), an introduction to the topic and a historical review of the sputtering process are provided, including an outline of recent events. In this section, an overview of the latest technological developments related to sputtering technology is supplied and current and emerging applications for sputtering are also identified and grouped in segments (electronics, optoelectronics, energy, optical coatings, mechanical/chemical, life sciences, sensors and instrumentation and others).

The second part of the study (Chapter 4) summarizes typical sputtering target types, raw materials and applications, and production methods. Each of these three sections concludes with an analysis of the most important technological developments and improvements since 2014, including examples of significant patents recently issued or applied for.

The third section (Chapter 5) entails a global market analysis of sputtering targets and sputtered films. Global revenues (sales data in millions of dollars) are presented by field of application, material type and region, with actual data referring to the years 2014 and 2015 and estimates for 2016. Projected sputtering target revenues and total sputtered film area are also supplied, with forecast CAGRs for the period 2016 through 2021.

Next, details of the global market analysis are covered. For each major application group or industry sector (specifically electronics, optoelectronics, mechanical/chemical, energy, optical coatings and life sciences and others), information is provided on production of sputtered films, consumption of sputtering targets and target revenues by material and region.

The analysis of the current sputtering target market is followed by a detailed presentation of market growth trends, based on industry growth, technological trends and regional trends. The third section concludes by providing projected sputtering target revenues and total sputtered film area within each sector, together with forecast CAGRs for the period 2016 through 2021.

In the fourth section of the study (Chapter 6), which covers global industry structure, the report offers a list of the leading manufacturers of sputtering targets, together with a description of their products. The analysis includes a description of the geographical distribution of these firms and an evaluation of other key
industry players. Detailed company profiles of the top players are also provided.

The fifth and final section (Chapter 7) includes an analysis of recently issued U.S. patents, with a summary of patents related to sputtering target materials, types, fabrication methods and applications. Patent analysis is performed by region, country, assignee and material type.

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