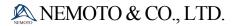


NEMOTO

CORPORATE PROFILE



NEMOTO & CO., LTD.

Printed in Aug. 2022

Ver.6.5 Aug. 2022

Greeting

Our corporate motto is "Chemicals for the Benefit of the Earth and Mankind"

The 21st century has brought a paradigm shift in values shared by people around the world. The age of total faith in science and technology as the path to greater convenience and prosperity for mankind is over. A new set of values has defined a new role for science and technology in what will be an ongoing challenge for mankind to coexist with the environment that nurtures us. In other words, we must now focus our human ingenuity on a new generation of environmentally friendly science and technology.

Since its founding in 1941, Nemoto & Co., Ltd. has continued to be a technological development-oriented corporate group dedicated to the ideal of "Chemicals for the Benefit of the Earth and Mankind" and focusing our resources on the development of new products in specialized areas that meet the highest international standards. Primarily, we have applied innovative technologies to develop unique new materials, products and businesses in the fields of Safety, Security and Health.

In our luminous paints business we apply our core technologies in the three fields of phosphor manufacturing technology, radioisotope handling technology and painting and printing technology to seek out and develop new applications and new business opportunities. Working from our core competency in luminous paints, we have expanded into other fields with new products employing luminescent materials for lighting, display and the like, while also expanding our businesses in the fields of sensors and life science.

Going forward, the independent companies comprising the Nemoto Group will continue to pursue the specialization, diversification and globalization of business based on the ideal of "finding what we can do today to summon in the future" (from Peter F. Drucker). We ask for your continued support of our corporate activities.



Mieko Nemoto President&CEO, NEMOTO & CO., LTD.

The Nemoto Vision

Management Principles

The Nemoto Group aims to improve the wellbeing of society and the environment through our business activities.

The Nemoto Group's objective is to be a world-leading corporate group with unique technology and products.

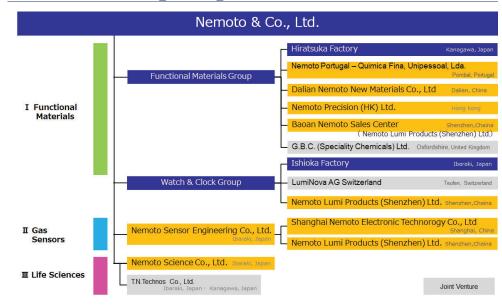
Environmental Principle

The Nemoto Group is aware that protection of the environment is of utmost importance for humankind, and we commit ourselves to running all aspects of our businesses with full consideration for any impact on the environment.

Quality Principle

The Nemoto Group aims for corporate practices and management that places top priority on customer satisfaction by supplying products and services of the highest quality that answer real customer needs.

Nemoto Group Map



Nemoto Global Network





Corporate Profile

Founded	December 1941	Hea
Capital	99,000,000 (Yen)	4-10-9
President & CEO Senior Managing Director Managing Director Director Auditor	Mieko Nemoto Mitsuhiro Murata Shinichi Watanabe Jiro Ono Kenji Tsuruhara	Tokyo Adm Tel - Wat Tel -
Auditor	Michiko Nemoto	Tol

-10-9 Takaido-Higashi, Suginami-ku, okyo 168-0072, Japan Administration Department Tel +81-3-3333-2711 Fax +81-3-3333-2712 Watch Related Business Tel +81-3-3333-7341 Fax +81-3-3333-7344 Intellectual Property Tel +81-3-3333-2751 Fax +81-3-3333-9568

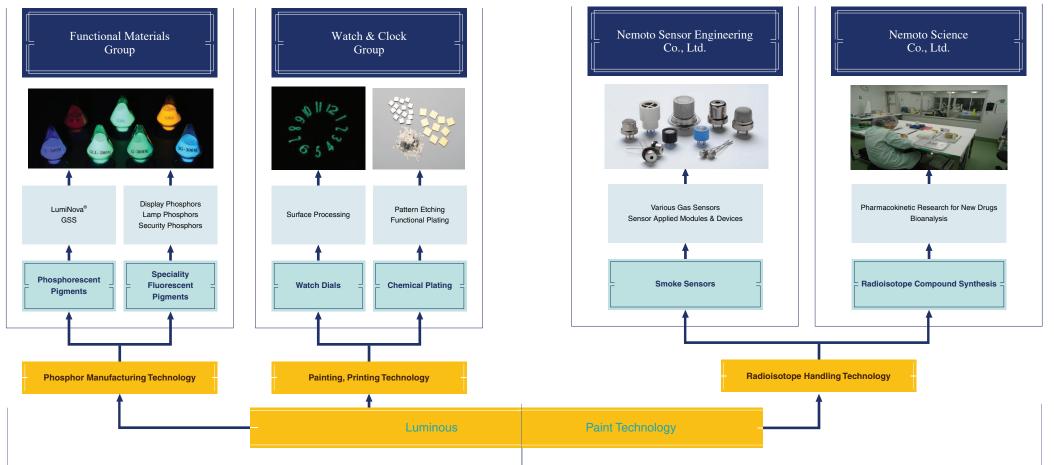


President & CEO

About the Nemoto Group (Sep 2017)

Our corporate theme is "Chemicals for the Benefit of the Earth and Mankind" Group and Affiliated Companies: 13 (Japan, China, Hong Kong, Portugal, Switzerland) Employees: Approx. 650





Nemoto & Co., Ltd.

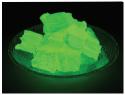
Functional Materials

Products

Phosphorescent Pigments

LumiNova®

Developed by Nemoto in 1993, LumiNova® are hailed as "dream phosphors" that glow 10 times brighter and 10 times longer than conventional phosphorescent pigments.LumiNova® is excited by a wide wavelength band (200-470 nm) of light from sources ranging from sunlight to fluorescent lighting to emit high levels of brightness and over longer periods. Furthermore, with special processing it can be used outdoors under direct sunlight because of its excellent light fastness. LumiNova® is a peoplefriendly and environment-friendly phosphorescent pigment that is absolutely free of hazardous and radioactive substances.





LumiNova® pigment(in the dark)

LumiNova® is also used in luminous emergency exit signage in public buildings, tunnels, railway stations and passenger transport around the world.

GSS

R&D Center

5

Hiratsuka, Japan

Nemoto GSS series are phosphorescent pigments characterized by their ability to absorb/store the energy of natural and artificial light and to emit it in the form of visible light in the dark. The cycle of absorbing, storing, and emitting light can be repeated virtually indefinitely. Standard GSS consists of very fine crystals of zinc sulfide doped with copper (ZnS:Cu) and it can be mixed into most synthetic resins and processed into different forms for a wide range of uses in paints and inks, etc.

Speciality Fluorescent Pigments

Display Phosphors CCFL Phosphors, PDP Phosphors, EL Phosphors Speciality Lamp Phosphors

Security Phosphors Anti-counterfeiting phosphors, Brand protection phosphors Lamp phosphors, Black light phosphors



Dalian Nemoto

Dalian, China

New Materials Co., Ltd.

ISO 9001

Nemoto Portugal -Quimica Fina, Unipessoal, Lda. Pombal, Portugal ISO 9001





ISO 9001 / ISO 14001

Contact Us

Nemoto Portugal - Quimica Fina, Unipessoal, Lda. Avenida Infante D. Henrique, 6. Parque Industrial Manuel da Mota. 3100-354 Pombal, Portugal Geral@nemoto.pt Tel: +351-236-209310 **EUROPE** Fax: +351-236-216185

Nemoto Precision (HK) Ltd.

Tel: +852-3703-5531

Fax: +852-3596-3272

Nemoto & Co., Ltd. Watch & Clock

Products

Since its development, LumiNova[®] have been used by timepiece makers worldwide for luminous watch/clock dials and hands. In the Swiss watch/clock making industry, LumiNova[®]-based phosphorescent pigments produced by the Nemoto Group enjoy a nearly 100% market share.



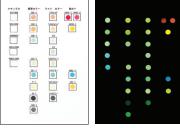




LumiNova® printing for Watch & Clock dials & Hands Several kinds of index sticker including LumiNova







LumiNova® Color Variation

Index sticker

Nemoto Lumi Products (Shenzhen) Ltd. Shenzhen, China





Nemoto's joint venture in Switzerland, which produces special high grade Swiss Super-LumiNova® for the Swiss watch industry under Nemoto's LumiNova® patents.

Contact Us

United Mineral & Chemical Corporation http://www.umccorp.com/ inquiry@umccorp.com

G.B.C. (Speciality Chemicals) Limited

http://www.luminova.co.uk/ info@gbcspecs.co.uk

Our US Agent

Our EU Agent

Nemoto Sensor Engineering Co., Ltd.

Corporate Profile

Founded	June 2008	Marketing Group		
Capital	60,000,000(Yen)		ni, Suginami-ku, Tokyo 168-0)072, Japan
President & CEO	Mieko Nemoto	Tel: +81-3-3333-2760 Fax: +81-3-3333-7344		
Managing Director	Shinji Miyazaki	Ushiku Works R&D Division		
Director	Hiroto Yuki	had Division		15014001
Director	Mitsuhiro Murata	4-2-1 Hitachino-nishi,		
Auditor	Shinichi Watanabe	Ushiku-shi, Ibaraki-ken 300-1206, Japan Tel: +81-29-872-7771 Fax: +81-29-872-777		

Main Products Development

- NIS-09C is developed and marketed as an ionization type smoke 1978 sensor
- 1979 Hot-wire type gas sensor NAP-7A developed, mounted on gas detectors

Gas detector mounting the hot-wire type gas sensor NAP-7A wins UL1484 certification

- 1984 NAP-2A, NAP-3A developed as the world's first hot-wire type gas sensors to combine the detection element and compensator element in one unit, mounted on various types of gas detectors
- 1993 World's smallest class catalytic type gas sensors NAP-55A, NAP-66A developed, contributing to slimmer detectors
- 1997 NAP-78A gas sensor for monitoring incomplete combustion is developed, mounted on water heaters
- Electrochemical CO sensor NAP-701 developed, mounted on 2000 CO detectors
- 2002 Industrial-use flammable gas sensor NP series developed and marketed World's smallest class electrochemical CO sensor NAP-505 developed, mounted on CO detectors

Industrial-use electrochemical CO sensor NE series developed and marketed

- Electrochemical CO sensor NAP-505 wins UL1484 certification 2004
- NSU-131A and NSU-131AF developed as sensors for fuel-cell 2005 gas leakage, mounted on fuel cells
- 2008 Sensor development and manufacturing divisions spun off as a separate company, Nemoto Sensor Engineering Co., Ltd.

CO intake monitor BC-711M developed, approved and patented as a medical device, sales begin

- 2011 Industrial-use electrochemical CO sensor NE-7CO-H for detecting CO in exhaust gas developed and marketed
- 2012 NE-7CO developed and marketed as a high-sensitivity type of the NE-CO
- NAP-80A developed and marketed as a type of the NAP-78A 2013 with high-concentration hydrogen tolerance
- 2014 NAP-57A developed and marketed as an industrial-use catalytic combustion type flammable gas sensor NAP-52A developed and marketed as a consumer-use catalytic combustion type flammable gas sensor



Shanghai Nemoto Electronic Technology Co., Ltd. Shanghai, China ISO 9001 / ISO 14001



Contact Us

Nemoto Sensor Engineering Co., Ltd. Marketing Group

E-mail: sensor2@nemoto.co.jp

Our products are widely sold throughout the world.

We offer a wide range of sensors with different detection principles to meet different requirements with regard to target gases, detection level of gas concentration, and differing use environments. As customer needs continue to diversify in today's market, we are working constantly to develop new technology.

Products







Catalytic (Hot-wire) type for **Residential Gas Detectors**

Electrochemical type for **Residential Gas Detectors**

Ionization type Smoke Sensors



Catalytic (Hot-wire) type for

Industrial Applications



Industrial Applications



Catalytic (Hot-wire) type for Commercial Applications



Various units



Polymer resistant type **Humidity Sensors**



Electrochemical type CO monitor

Nemoto Science Co., Ltd.

Corporate Profile

May 2000 Founded Capital 80.000.000(Yen) Chairman & CEO Mieko Nemoto Hiroki Tomisawa President Senior Managing Director Yoshihiko Tagawa Managing Director Akio Morohashi Director Mitsuhiro Murata Auditor Shinichi Watanabe

4-10-9 Takaido-Higashi, Suginami-ku, Tokyo 168-0072,

Japan

6136-4 Ohnogo-machi, Joso-shi, Ibaraki-ken 300-2521, Japan Tel: +81-297-24-0781 Fax: +81-297-24-1047

Main Products Development

- Dec. 1941 Founded for the production and sales of self-luminous paints for watches and other instruments.
- Jun. 1962 Incorporated Nemoto Photo-Chemical Co., Ltd. into Nemoto & Co., Ltd.
- Feb. 1984 Started custom syntheses of radiolabeled compounds for ADME studies at Tokyo laboratories of Nemoto & Co., Ltd.
- Oct. 1986 Started contract ADME studies on radiolabeled compounds at Tsukuba plant
- Apr. 1989 Completed second research building for life science at Tsukuba plant. (Synthetic and pharmacokinetic test facility)
- Nov. 1989 Completed third research building for life science at Tsukuba plant (Pharmacokinetic test facility and data storage facility)
- Mar.1995 Started contract research business for toxicokinetic analysis in accordance with GLP
- Apr.1997 Started contract research business for pharmacokinetic studies in accordance with Data Integrity Standards
- May. 2000 Established Nemoto Science Co., Ltd. taking over all operations from the life science division of Nemoto & Co., Ltd. Jul. 2001 Started contract research business for in vivo / in vitro
- pharmacokinetic screening tests in full scale
- Aug. 2001 Cooperated with RC TRITEC AG (Switzerland) and started contract syntheses of tritium labeled compounds
- Jan. 2006 Cooperated with Institute of Accelerator Analysis Ltd. and started contract clinical research using AMS detection
- Oct. 2009 Cooperated with Curachem Inc. (Korea) and expanded contract syntheses services of radiolabeled compounds
- Feb. 2014 Started contract research business for stability test for formulations
- Mar. 2015 Obtained certification for the laboratory animal facilities from Japan Health Science Foundation
- Dec. 2016 Completed animal experimental building for contract ADME studies on radiolabeled compounds

Tsukuba Laboratories Ibarakia, Japan



Contact Us

Tsukuba Laboratories

E-mail busi-dep@nemotoscience.co.jp http://www.nemotoscience.co.jp

Contract research for drug discovery and development

Drug discovery research

Radio-synthesis and purification In vivo/ in vitro pharmacokinetic studies

Pre-clinical development (Data Integrity Standards*)

Radio-synthesis and purification In vivo/ in vitro pharmacokinetic studies Toxicokinetic studies (GLP)



Clinical development (Data Integrity Standards* or GLP**)

Phase I -IV studies Bioequivalence studies



* Data Integrity Standards: "Data Integrity Standards for Product Application": Japanese regulations ** GLP: Good Laboratory Practice

Competitive Advantage

Well-trained technicians Competent instruments Report written in CTD Use of a variety of radioisotopes permitted

³H.¹⁴C.²²Na.³²P.³⁵S.⁴⁵Ca.⁵¹Cr.⁵⁷Co. ⁵⁹Fe,⁶⁵Zn,⁹⁹Mo-^{99m}Tc,^{110m}Ag,¹¹¹In,

¹²³I.¹²⁵I.¹³¹I.¹⁴⁷Pm.¹⁵³Gd

Stability test (Data Integrity Standards*)

Identification and Assav Performance tests







GLP Compliance

First inspection	Rating : A	August 24, 1998
Second inspection	Rating : A	June 10, 2002
Third inspection	Rating : A	August 3, 2005
Fourth inspection	Rating : A	June 24, 2008
Fifth inspection	Rating : A	June 6, 2011
Sixth inspection	Rating : A	July 24, 2014
Seventh inspection	Compliant	August 24, 2017