

Corporate Profile

Y O K O H A M A N E P L O S

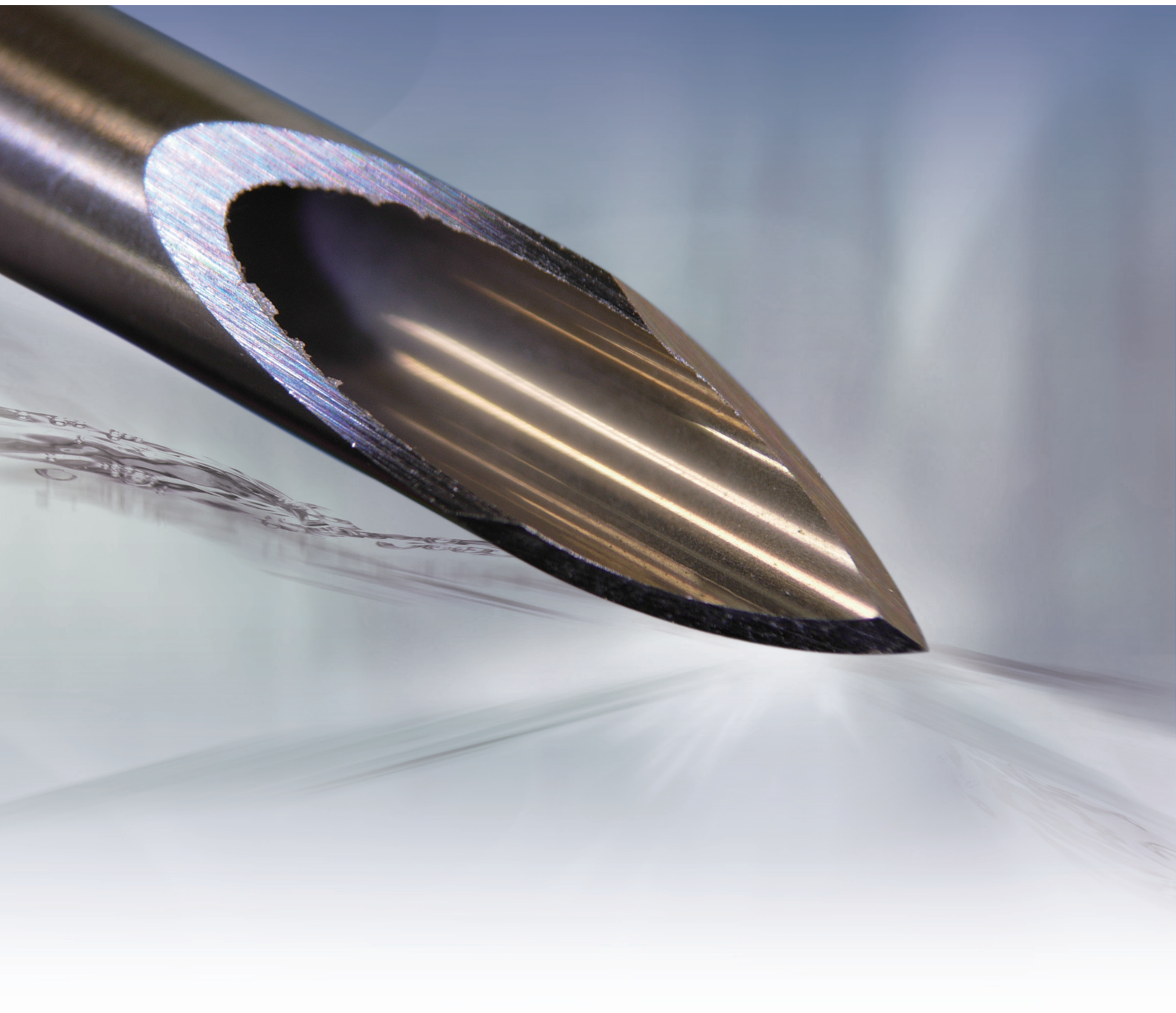
Our door is always open to your any inquiry.



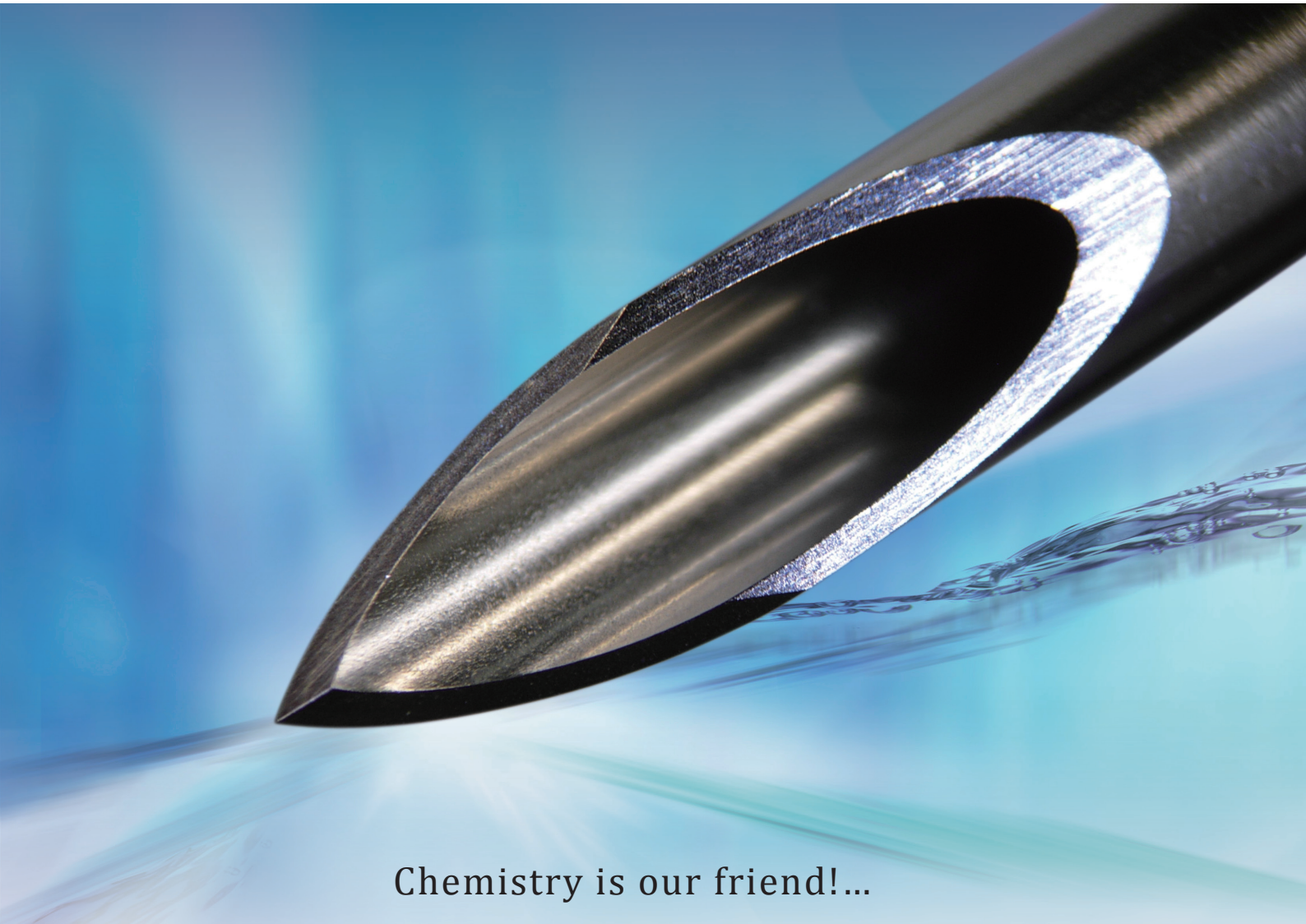
Tiny burrs on a hypodermic needle.

It would be ideal if the needle can be smoothened on the inside as well.

The question is.., “How?”



NEPLOS process is the answer !



Chemistry is our friend!...

What does the word "chemistry" make you think of?

Something incomprehensible? Something difficult? Something dangerous? A cause of pollution? Or...?

"Why does water put out fire?" - How well can you answer a simple question like this?

"Chemistry" is all around us. Removing oil spots and dust. Finishing up paint jobs. Wearing makeup, cooking, laundering, taking medicines...

That's right. Just everyday things. But they are all related to "chemistry," and are all very important. Not to mention, very complicated, too.

Yokohama NEPLOS is a company that deals with and pursue such things.

"Chemistry is our friend." This is our motto.

CEO Shinichiro Hayashi

Only One Technology

NEPLOS process is a chemical polishing process for surfaces of stainless steel and other metals

- Effective for removing welding burrs on or polishing the surface of hypodermic needles, surgical needles, electronic components such as hard disk drives, interior of thin pipes, and other minute products with uneven surface that are difficult to polish with electrochemical or mechanical processes.
- Processed surfaces become stable and resistant to corrosion (passivation).
- Processing time can be adjusted in seconds and minutes to control the polishing amount at the micron level, contributing to consistency in quality.



Where NEPLOS process can make a difference !

Polishing technique	Problem	Solution
Electropolishing	Hanging the workpiece one by one takes time and effort.	NEPLOS process can batch process small components placed in a basket.
	Electrodes cannot reach the interior of long or bent piping.	NEPLOS chemical polisher polishes the contact surface evenly,, so even the interior of long and bent piping can be polished if the piping can be immersed in the solution.
Barreling	Workpiece edges become rounded excessively.	Leaves minimum scratches as workpieces do not collide with each other as much as they do during barreling.
	May cause deformation.	
	Creates many dents and scratches	
Buffing	Takes effort to completely remove buffing powder	Even buffing powder pressed into dents on stainless steel surfaces can be removed.

Compatibility of NEPLOS Polishers with Major Metals & Alloys

○.. Compatible △.. Conditional compatibility

	Stainless Steel						Nickel Inconel
	Austenitic				Martensite	Ferrite	
	SUS303, 304, XM7 Lost Wax SCS13, 14		SUS316, 316L				
	Polishing	Burr removal	Polishing	Burr removal	Burr removal	Burr removal	Burr removal
New#505	○	○	△	△	△		○
#507N	○ to △	○ to △	○	○	△	△	○

	Aluminum	Copper/brass	Iron	Pure titanium Titanium alloy
#27-AI	○			
#103-M, #103-M2		○		
L-11			○	
#601				○

Examples of NEPLOS Process

Material: SUS304
(Polishing)

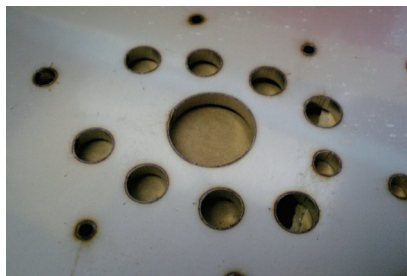
■ Before processing



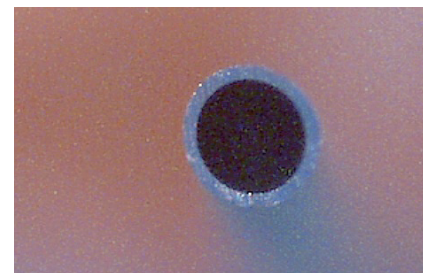
■ After processing



Material: SUS304
(Burn mark removal)

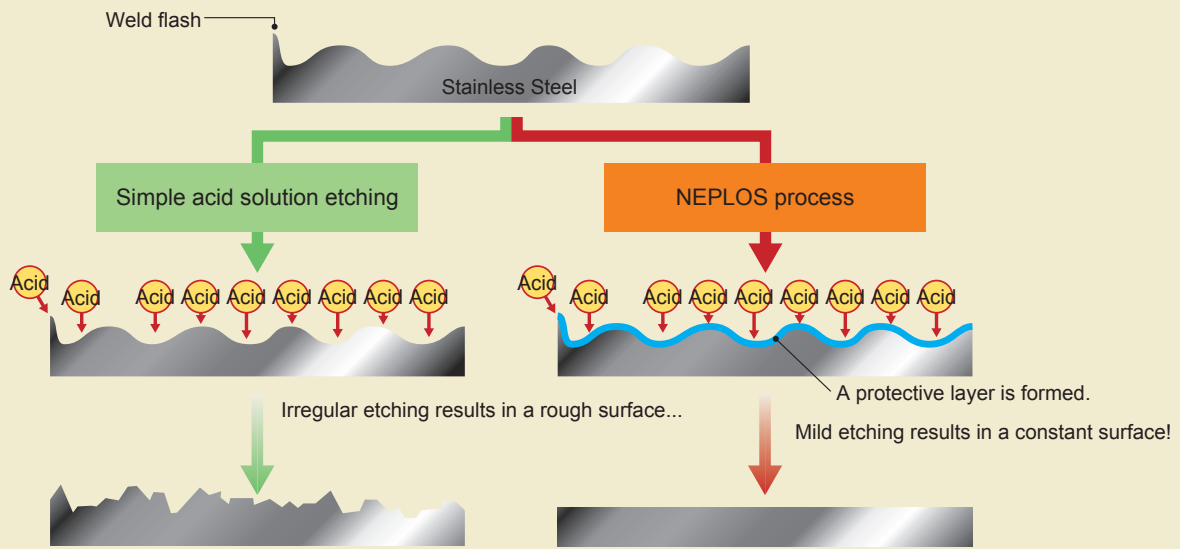


Material: Pure titanium
(Burr removal)

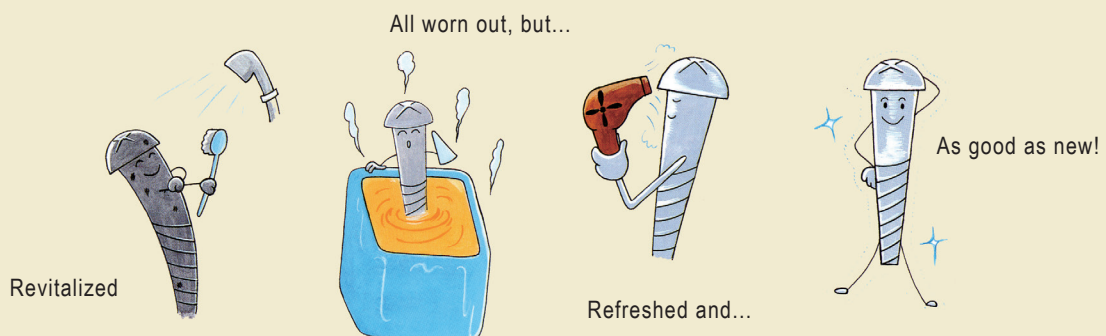
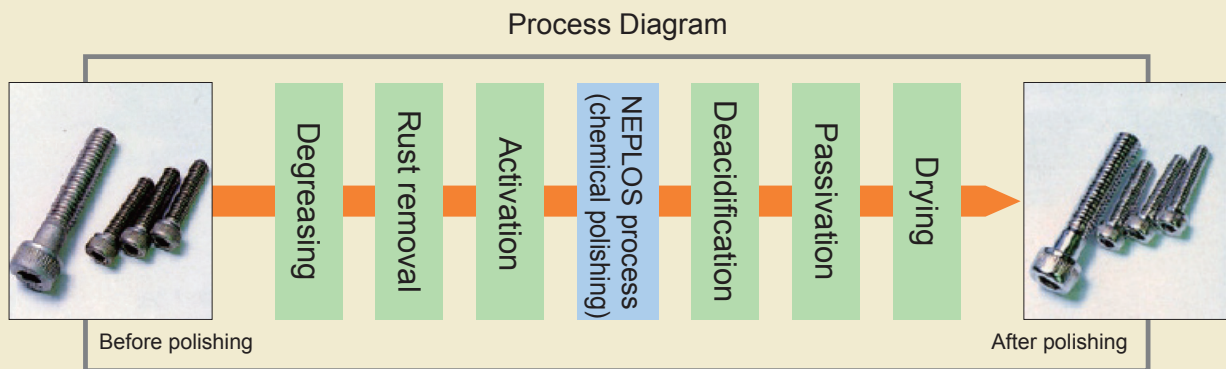


Basic Concept

■ Basic Idea of NEPLOS Process

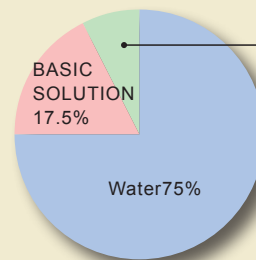
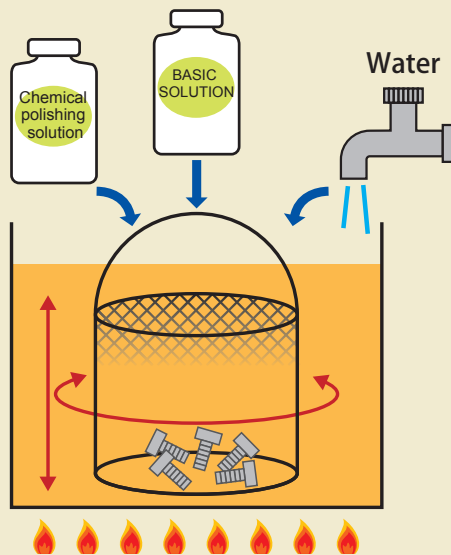


■ Basic Process



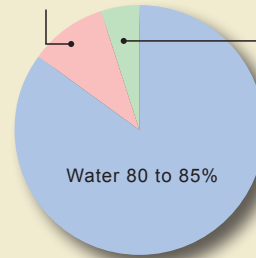
■ Image of the Process

NEPLOS Process of Stainless Steel



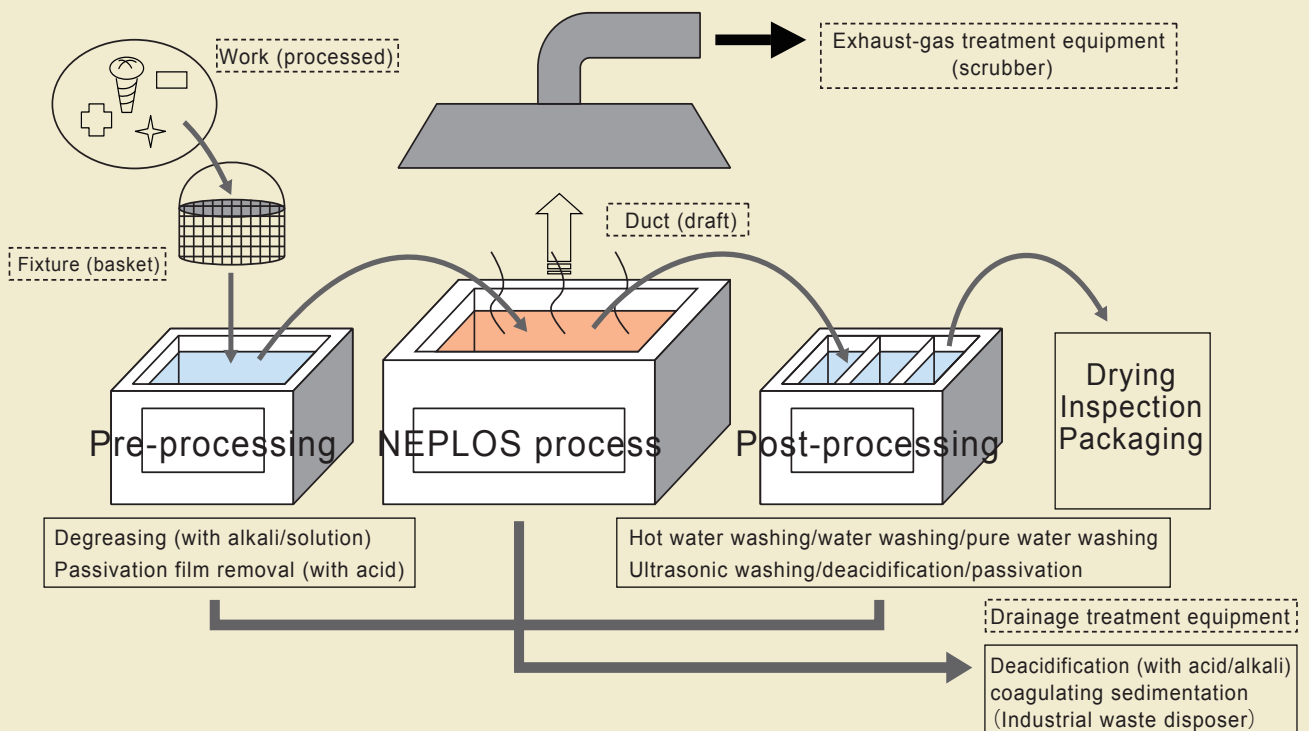
NEPLOS #507N mix ratio
(For a 1 L polishing solution)
#507N:BASIC SOLUTION:Water=
75ml: 175ml: 750ml

NEW BASIC SOLUTION
10 to 15%



NEPLOS NEW #505 mix ratio
(For a 1 L polishing solution)
NEW #505:NEW BASIC SOLUTION:
Water=50ml:100 to 150ml:
850 to 800ml

■ Necessary Equipment



Products & Works

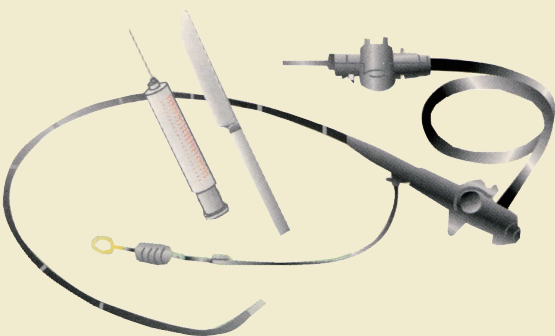
NEPLOS Product Lineup

Chemical Polisher for Stainless Steel NEPLOS # 500 Series		
NEPLOS NEW #505 NEPLOS NEW BASIC SOLUTION	For SUS304 only	20Kg each (liquid)
NEPLOS #507N NEPLOS BASIC SOLUTION	Supports all SUS304, 316, 316L austenitic stainless steel	20Kg each (liquid)
Chemical Polisher for Metals		
NEPLOS #103-M NEPLOS #103-M 2	For copper/copper alloy	20Kg (liquid)
NEPLOS #27-AI	For aluminum/aluminum alloy	20Kg (liquid)
NEPLOS L-11	For steel	20Kg (liquid)
NEPLOS #601	For titanium	20Kg (liquid)

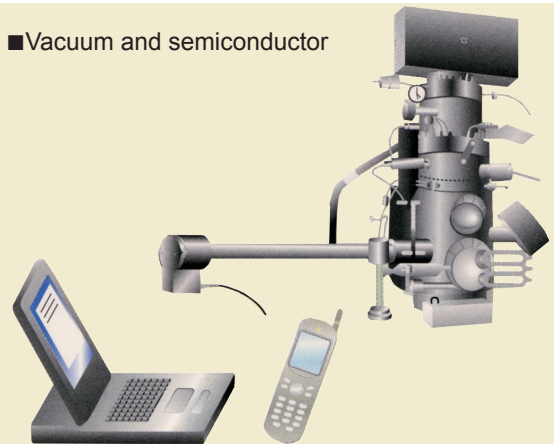
Research & Development

We have been striving for research and development of chemicals and methods used for surface finishing to meet our customers' emerging needs.

■Healthcare



■Vacuum and semiconductor



Production and Marketing of NEPLOS Chemical Polishers

We produce and market NEPLOS chemical polishers for metals.

Oxide Layer Removers

NEPLOS #120-F	For stainless steel only	Removes scale at welding spot for stainless steel. Extra strength type.	20Kg (liquid)
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Degreasers & Cleaners

NEPLOS #1008-Y	Ideal for porcelain, plastic, and kitchen	Neutral	20Kg (liquid)
NEPLOS #4207	For removal of tough grease. Extra strength type for kitchen	Alkaline	20Kg (liquid)

Anti-Corrosives

NEPLOS MD-2	For general use, oil soluble	Ideal for all metal. Water displacing type.	18 L (liquid)
NEPLOS D&D	Versatile	Has effects: moisture-proofing, rust-proofing, and lubrication.	300cc (spray type)

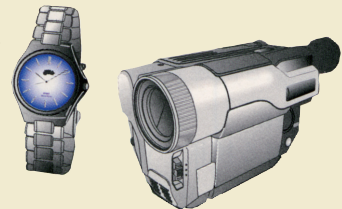
Contracted NEPLOS Process

NEPLOS chemical polishers are used for the NEPLOS process in our factory. Please ask our professionals to finish your products when you are unsure to be able to handle those chemicals.

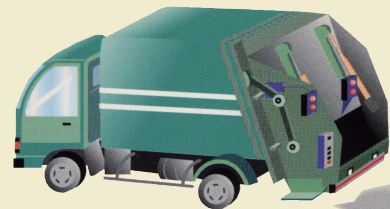
■Ornamentals



■Precision devices



■Environmental (industrial waste)



Waste Solution Disposal

We collect and haul various industrial waste as well as waste solution after the NEPLOS process. Please consult us for details.

History

■ Corporate Data

Company Name

YOKOHAMA NEPLOS Co., Ltd.

Primary Factory

Kami-Shiranecho 762-2, Asahi-ku, Yokohama

Secondary Factory

Tsuokacho 89-20, Asahi-ku, Yokohama

Established

March 1969

Capital

10 million yen

CEO

Shinichiro Hayashi

Qualified Staff

Poisonous and Deleterious Substances Senior Operator	5
Dangerous Objects Senior Operator	4
Organic Solvents Senior Operator	3
Specified Chemical Substances Senior Operator	3
Chlorinated Organic Solvents Field Instructor	1
Sales Manager of Anti-Corrosives for Water Supplies	1
Class A Abatement Facilities Management Director	1

Public Filings and Licenses

Manufacturing of poisonous and deleterious substances

Kanagawa prefecture No. 7010

General sales of poisonous and deleterious substances

Yokohama city No. 6090062

NEPLOS 507 Patent No. 3017369

Collection and hauling of industrial waste

Collection and hauling of industrial waste subject to special control

Yokohama city No. 5600005629

Kawasaki city No. 5700005629

Yokosuka city No. 5801005629

Sagamihara city No. 9800005629

Kanagawa prefecture No. 1402005629

Tokyo prefecture No. 1300005629

Yamanashi prefecture No. 1900005629

■ History

March 1969	"FK Anti-Corrosion" established in Tsunashima, Kohoku-ku, Yokohama.
June 1971	Relocated to current address. Reinforced sales of industrial chemicals, and began sales of chemical stainless steel processing equipment and chemical facilities equipment.
February 1974	Company restructured and renamed to "YOKOHAMA NEPLOS Inc."
May 1979	Licensed as manufacturer of poisonous and deleterious substances. Began manufacturing and sales of surface processing agents, various industrial cleaners, car wax, etc.
December 1986	Company restructured and renamed to "YOKOHAMA NEPLOS Co., Ltd."
February 1987	First participation in "Technical Shot Yokohama" (Kanagawa prefectural industrial technology exhibition) and "Techno-Transfer in Kawasaki" (advanced technology exhibition). Annual participation since.
January 1989	Increased capital to 10 million yen.
May 1990	Began industrial waste collection and hauling business.
April 1991	Established partnership with 辰威科技有限公司 as local agency in Taiwan. Participated in the Industrial Technology Exhibition at Taipei, Taiwan.
October 1998	Received Yokohama City International Industrial Development Subsidy.
December 1999	Received Yokohama City Subsidy for Research and Development by Small and Medium Size Enterprise.
March 2000	Patent acquired for NEPLOS 507 (No.3017369).
March 2000	Transferred business from Kataoka Chemical Laboratory Corporation.
March 2000	Established second factory in Tsuokacho, Asahi-ku, Yokohama.
November 2000	Participated in the Industrial Technology Exhibition in Shanghai, China.
June 2001	Established partnership with 遼陽液体高分子化工研究所 as local agency in China.
April 2002	Shinji Hayashi appointed as the Chairman of the Board, and Shinichiro Hayashi appointed as the CEO
May 2002	Shinji Hayashi awarded by the Mayor of Yokohama in recognition of his service to the industrial promotion of Yokohama.
February 2003	Participated in the 7th Ohta Industrial Fair, an industrial technology exhibition of Ohta-ku, Tokyo.
October 2003	Registered "NEPLOS" as a trademark. File No. 4718982
May 2004	Established partnership with 遼陽宝龍化学研磨有限公司 as local agency in China.
September 2004	Participated in the Small and Medium Size Enterprise Fair 2004 by the Small and Medium Enterprise Agency.
January 2005	Chemical polishing brightener for stainless steel, NEPLOS NEW #505, NEPLOS NEW BASIC SOLUTION, and NEPLOS #505SH on the market.
January 2006	Chemical polishing brightener for titanium, NEPLOS #601 on the market.
June 2007	First participation in the 11th M-Tech. Annual participation since.
July 2007	Established partnership with 上海申蒙金属制品加工有限公司 as local agency in China.
November 2007	Participated in the Niigata International Business Messe 2007

■ Main Clients

AIR WATER INC.
 Akiyama Manufacturing Co., Ltd.
 ALPS ELECTRIC CO., LTD.
 CITIZEN WATCH CO, LTD CORPORATION
 DISCO Inc.
 Hitachi, Ltd.
 Honda Motor Co., Ltd.
 HOYA CORPORATION
 JAPAN AUTOMOBILE ROAD CORPORATION
 Kaneko MediX inc.
 KI HOLDINGS GROUP
 KOITO INDUSTRIES,LTD
 MANI,INC
 MIRAPRO Co., Ltd.
 Mitsubishi Electric Corporation
 MITSUI MINING & SMELTING CO.,LTD
 NEC Corporation
 NHK Spring Co., Ltd.
 Nihon Chusyashin Kogyo Co., Ltd.
 OHBAKIKO CO.,LTD
 Oki Electric Industry Co., Ltd.
 OLYMPUS CORPORATION
 Panasonic Corporation
 SANSHIN CHEMICAL IND.CO, LTD
 Sharp Corporation
 SHIBAURA MECHATRONICS
 Sony Corporation
 SPRAYING SYSTEMS CO., JAPAN
 STAR MICRONICS CO., LTD.
 The Yokohama Rubber Company, Limited
 TOP Corporation
 TOSHIBA CORPORATION
 ULVAC KIKO, Inc.
 Unisis Corporation
 Yamatake Corporation
 etc.

... and over one thousand other clients including academic institutes

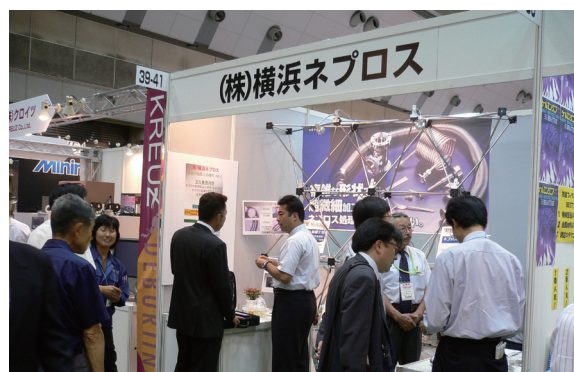
China
 Korea
 Taiwan
 Tailand
 Singapore
 Malaysia
 USA
 Engind
 etc.

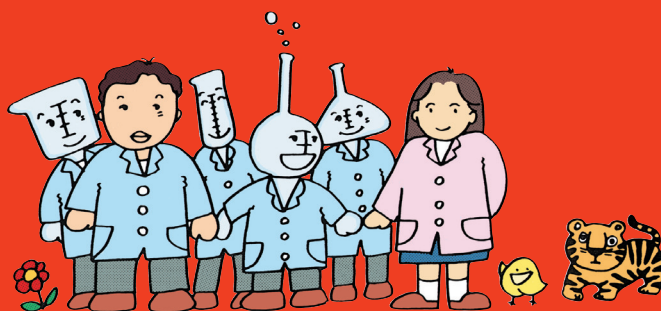
There is more to come. NEPLOS proprietary product lineup

Chemical polishing brighteners for stainless steel
 NEPLOS #505SH [focused on burr removal]
 Etching agents for stainless steel
 NEPLOS #202-H2 [for stainless steel only]
 Degreasers & Cleaners
 NEPLOS cleaner #200 [alkaline powder]
 Rust Removers
 NEPLOS #120-F [for stainless steel only]
 NEPLOS Thickener [additive for applying NEPLOS #120-F]
 NEPLOS #30-S [for iron and steel, sulfuric]
 NEPLOS #1202 [for iron and steel, hydrochloride]
 Anti-Corrosives
 NEPLOS #303-s
 Special Product
 NEPLOS #7510 [defoamer for NEPLOS process]
 Environmental Health Maintenance
 VP Cleaner [drain sterilization cleaner at dentists and hospital clinics]
 NEPLOS #56-KK [drain unclogging chemical]
 NEPLOS #1205 [urinary calculus remover]
 NEPLOS #34-T [slime remover at a cooling tower]
 Sayaka [Deodorant for general use]
 A wide range of industrial chemicals
 Laboratory equipment



NEPLOS has been aggressively participated in a number of exhibitions including M-Tech.





Chemistry is our friend...

 **YOKOHAMA NEPLOS Co., Ltd.**

Kami-Shiranecho 762-2, Asahi-ku, Yokohama, Kanagawa 241-0001, JAPAN
Tel: 045-954-3221 Fax: 045-954-3316
E-mail: sayaka@neplos.co.jp URL: <http://www2.odn.ne.jp/neplos>