To realize a more affluent life through the manufacturing of products that satisfy customers.
## Product developing process

<table>
<thead>
<tr>
<th></th>
<th>1920s</th>
<th>1950s</th>
<th>1960s</th>
<th>1970s</th>
<th>1980s</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product list</strong></td>
<td>Porcelain</td>
<td>Start developing a new material</td>
<td>Material improvement</td>
<td>Zircon</td>
<td>High purity alumina(N-92~99)</td>
</tr>
<tr>
<td></td>
<td>• Zircon cordierite</td>
<td>• Zircon cordierite</td>
<td>• Material improvement</td>
<td>• Zircon</td>
<td>• High purity alumina(N-92~99)</td>
</tr>
<tr>
<td></td>
<td>• Cordierite</td>
<td>• Cordierite</td>
<td></td>
<td>• A White color catalyst for a deodorization machine</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• R-200 porous alumina</td>
<td></td>
</tr>
<tr>
<td><strong>Applications</strong></td>
<td>An Insulator</td>
<td>An Insulating plate for a switch</td>
<td>A resistor for a train</td>
<td>A halogen lamp</td>
<td>A pump shaft</td>
</tr>
<tr>
<td></td>
<td>• A bottle plug</td>
<td>• A Porcelain plate for a switch</td>
<td>• A resistor for a train</td>
<td>• A microwave oven</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• A Wiring device for a weak electric</td>
<td>• A Porcelain plate for a communicator</td>
<td>• A thermometry tool for a cast iron</td>
<td>• A high voltage insect killer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>current</td>
<td>• A Surge protection unit</td>
<td>• An electric heating device for a consumer electronics(An iron, An electric heater, A toaster, and so on)</td>
<td>• A large deodorization machine</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• A Surge protection unit</td>
<td>• A large deodorization machine</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• High voltage insect killer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• A large deodorization machine</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• High voltage breaker</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Product developing process (1990s~)

<table>
<thead>
<tr>
<th></th>
<th>1990s</th>
<th>2000s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product list</td>
<td>・Aluminum nitride</td>
<td>・N-9H heat radiation ceramics</td>
</tr>
<tr>
<td>青群</td>
<td>・N-999</td>
<td>・N-9000NS Translucent alumina (2010s~)</td>
</tr>
<tr>
<td></td>
<td>・Zirconia</td>
<td>・N-9000T visual light reflection ceramic (2010s~)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>・Yttria (2010s~)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>・Large size alumina</td>
</tr>
<tr>
<td>Applications</td>
<td>・A semiconductor manufacturing machine device</td>
<td>・A LED lamp</td>
</tr>
<tr>
<td>採用例</td>
<td>・A medical device</td>
<td>・A heat sink</td>
</tr>
<tr>
<td></td>
<td>・A machine parts</td>
<td>・A heat sensor</td>
</tr>
<tr>
<td></td>
<td>・An optical device</td>
<td></td>
</tr>
</tbody>
</table>
Company history

1918
Masajiro Nishimura start producing a porcelain at the foot of the Kiyomizu temple, Kyoto.

1947
Yosakichi Nishimura founded the Nishimura seitosho company.

1967,8
Change the company name to Nishimura porcelain company. Move to current location Yamashina.

1960s
Set a lot of machine press. Automation, Large scale production

1980
Advanced ceramic (Japanese called “New ceramics”) fever era

1981
Yoshio Nishimura (A incumbent chair man) was installed as a president.

1985
Set a high temperature gas furnace
Company History

2000
Start taking green processing

2011
Introducing an image presser machine press.

2011
Introducing a 400ton oil presser machine press.

2014
Set a overseas division. Start overseas sales.

2017
Change English company name to “Nishimura Advanced ceramics Co., Ltd” from “Nishimura Porcelain Co., Ltd”

2016
The Japanese Ministry of Economy, Trade and Industry (METI) selected us as a model examples called “Excellent SMEs and Micro Enterprises Selection 300” and “Excellent Shopping Districts Selection 30.”

2018
100th anniversary of the founding
Materials

- Alumina (92~99.99%)(White, Black color)
- Tosoh®Zirconia (Normal, HIP, Black color, Blue color),
  - Lower price Zirconia
  - High Fracture Toughness Zirconia
- Aluminum Nitride (Thermal conductivity 170W type, High purity type)
- Yttria
  - Heat radiation ceramic
  - Forsterite
- Porous Alumina (High porosity type, 0.1µm pore size type, and more)
- High Strength Translucent Alumina ceramics
- Feed Stock for CIM, Extrusion Molding, Dry press
- And more...
Manufacturing Technology

Ceramic Injection Molding (30 years experience)

Extrusion Molding (30 Years Experience)

Machine press (Hand press ~ 400 ton)

Cold Isostatic Press (CIP)

Feed Stock Technology
- Own R&D team
- Own Spray Drying
- Unfired machining (CNC)
- Sintering Technology
- Polishing
- Lapping Machine
- Centerless Grinding
- 3D measuring

Partnership between several research Institute
N-9000NS Translucent Alumina (99.99% Alumina)

N-650 Zirconia

N-9H Heat radiation ceramic (99.7% Alumina)
We have over 30 years experience as a pioneer of CIM.

From Feedstock preparation to Sintering.

Low cost (From 1pcs cavity mold to 8pcs Cavity mold).

Making complex design parts in one shot.

(Customer Industry)
- Automobile, Electric, Industry, Medical, Luxury goods.
Feedstock (CIM, Extrusion, MIM, Granuel powder)

**CIM feedstock**
- N-9000NS Translucent Alumina, N-999S, N-96, Zirconia (White, Black, High fracture toughness) CIM feedstock is now available to provide.
- High recyclability (up to 10 times which is X3 from usual feedstock)
- Less abrasion of metal mold
- From small quantity
- 100% Nishimura original binder mixing and original ceramic powder

**MIM feedstock**
- We need to prepare a feedstock with our original binder mixing.
- High Recyclability
  - *Metal powder should be supplied from a customer*

**Extrusion feedstock**
- 100% Nishimura original binder mixing
- Over 30 years experience of extrusion feedstock preparing.
- From small quantity.
Nishimura Advanced Ceramics will work hard for developing market of Advanced Ceramics (Fine ceramics, Engineering ceramics) with our 100 years ceramic manufacturing experience. Please feel free to contact me for any cooperation.