

“World’s top market share”
**Materials for Automotive Exterior Moldings for Japanese,
European and American Automobile Manufacturers**
**Introduction of Original Stainless Steel Grades
and Design Variations**

NIPPON KINZOKU CO.,LTD. (Headquarters: Minato-ku, Tokyo, President Yasushi Shimokawa) has developed a wide variety of high surface quality, surface finish, and materials for exterior molding materials for Japanese, European, and American automobile manufacturers, based on the technology we have developed in the process of processing (rolling) into thin materials.

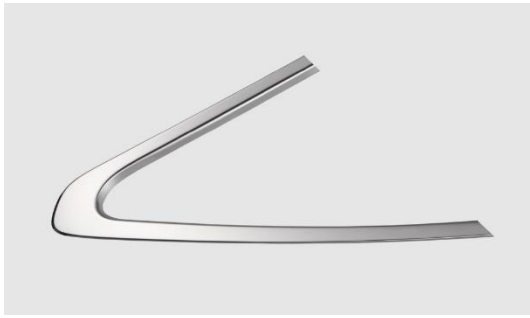
Our materials can be selected according to the design of the car and the environment in which it will be used, and are used by many automobile manufacturers in Japan and overseas, boasting the world’s top market share.

NIPPON KINZOKU's materials for automotive exterior moldings can be continuously processed from coil (steel strip), and processing dies for forming and pressing can be shared for all finishes. Since these products achieve high design quality through our rolling technology, no need for polishing, painting, or surface treatment like aluminum, contributing to customers' process reduction and yield improvement. These are our original products that meet new needs under the keyword of “Near Net Performance” (=products that achieve the performance required for the final product by materials) in line with the vision of the 11th business plan “NIPPON KINZOKU 2030”. As one of the new items that will form the pillar of our 11th Business Plan, we will aim to expand sales of this product in the future.

In addition, NIPPON KINZOKU's materials for automotive exterior moldings are also environmentally friendly products “eco-products” certified under our own standards, because it enable customers to reduce their environmental impact. Our goal is to achieve Net Zero CO₂ emissions by 2050, and we will contribute to the realization of carbon neutrality by expanding sales of our “eco-products”.



Automotive Exterior Molding (Yellow colored part)



Example of a prototype sample (Left : PW finish, Right : FB finish)

Features

1. Original stainless steel grade

- "NK-430MA" and "NK-436L-NB" original stainless steel grades are used for exterior moldings.
- Both grades have corrosion resistance equivalent to SUS304, a typical stainless steel grade.
- The low Ni content (0.6% or less) makes it with low price fluctuation.
- Compared to aluminum, which is widely used for automotive exterior moldings in Europe, stainless steel has higher corrosion resistance and does not require surface treatment (anodizing) like aluminum, thus reducing environmental impact and costs through process reduction.

Table1 List of steel grades

No.	Steel Grades	Summary
1	NK-430MA	<ul style="list-style-type: none"> •NK-430MA is a grade based on SUS430 with improved corrosion resistance and deep drawing formability for automotive exterior moldings. •Equivalent level of corrosion resistance to SUS304. •Low Ni content (0.6% or less) and lower cost than SUS304.
2	NK-436L-NB	<ul style="list-style-type: none"> •436L series steel grade with molybdenum (Mo) added to improve corrosion resistance is specified for automotive exterior molding materials by European and American automobile manufacturers, and this steel grade was developed to meet European and American specifications. •Equivalent level of corrosion resistance to SUS304. •NK-436L-NB is the only Japanese material approved by European and American automobile manufacturers.

2. Design variations (Surface finishes)

- Recently, the market for automotive exterior moldings has been diversifying in colors and designs. NIPPON KINZOKU is able to supply a wide variety of design variations (surface finishes).
- In particular, "Fine Black" is a finish we developed with TOYO RIKAGAKU KENKYUSHO CO., LTD. (Headquarters: Nishikanbara-gun Yahiko-mura, Niigata, President Hiroharu Miyazaki) a company specializing in electrolytic polishing of stainless steel, to meet the market need for a "metallic black" surface finish.

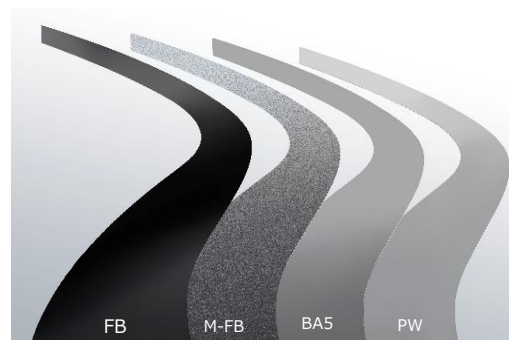
Table2 List of Surface Finishes

No.	Finish Grades	Summary
1	BA5 (Bright Annealing)	•In addition to the general metallic glossy BA finish (surface finish by bright heat treatment after cold rolling), the “BA5” finish is even higher glossy by our proprietary technology.
2	PW (Pearly White)	•Finished in stainless steel with a calm satin tone (aluminum tone).
3	FB (Fine Black®)	•An extremely thin transparent oxide film is formed on the surface of stainless steel to achieve a metallic look and deep black color through light interference and absorption phenomena. •The surface is treated with a special hard film to provide excellent corrosion and wear resistance.
4	M-FB (Matte FB)	•Developed “Matte tone” FB finish to meet the market need for “matte” products.

•All finishes can be continuously processed from coil (steel strip) at the customer's site, so processing dies for forming and pressing can be shared for all finishes. Initial and processing costs can be reduced compared to painting or taping.

3. Production range

- Steel Grades: NK-430MA, NK-436L-NB
- Finish: BA5, PW, FB, M-FB
- Thickness x width: 0.3~0.5mm x Max. 550mm
- Supplied in coil (steel strip) and sheet materials



About NIPPON KINZOKU Group

Our products have been used in a range of areas from the precision field to the construction industry. <https://www.nipponkinzoku.co.jp/en/>

Note: This document has been translated from a part of the Japanese original for reference purposes only. In the event of any discrepancy between this translated document and the Japanese original, the original shall prevail.

* * * Contact * * *

Sales Development Dept.
NIPPON KINZOKU CO., LTD.

E-mail: nikkin-overseas@nipponkinzoku.co.jp
<https://www.nipponkinzoku.co.jp/en/inquiry>