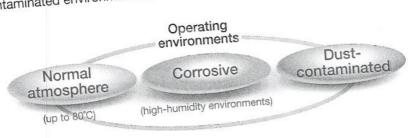
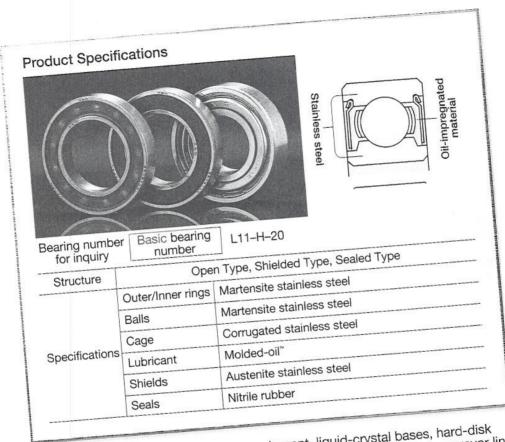
## Specifications, Operating Instructions, and Technical Data E) for SPACEA™ Series Bearings

# 2. Molded-Oil™ Bearings

Molded-Oil™ bearings are lubricated with NSK's own oil-impregnated material, Molded-Oil™, and are suitable for corrosive and dust-contaminated environments in normal atmosphere.





Applications: Semiconductor cleaning equipment, liquid-crystal bases, hard-disk cleaning equipment, food processing machinery, various conveyor lines

- Molded-Oil™ bearings should not be exposed to degreasing liquids such as organic solvents. ■ Molded-Oil melts at a temperature of 120°C. The bearings must not be heated over 100°C, especially during shrink fitting.
- A radial load is required for the bearings to properly rotate. The minimum radial load recommended for maintaining proper rotation is at least 1% of the basic dynamic load rating.
- For use in normal atmosphere only.
- The scope of applications is shown in the table below.

For use in normal aution	as is shown in the table t	pelow.		335
<ul><li>For use in normal attrict</li><li>The scope of application</li></ul>	113 13 31 13		Limiting load	-
	a writing temperature	was rotational speed	1 506 inclusive, of the stainless	
Operating environment		$d_{m}n = 150\ 000$	Steel pearing	
Water spray, water immersion	Up to 80°C	outside diameter, mm) ÷ 2 × Ro	otational speed, rpm	
water inimersion	ore diameter, mm + Bearing	outside diameters	Legrings	

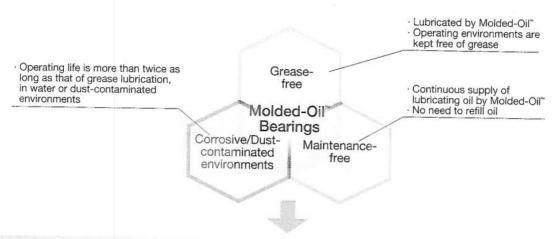
Remarks 1.  $d_m n =$  (Bearing bore diameter, mm + Bearing outside diameter, mm)  $\div$  2 × Rotational speed, rpm

- 2. The limiting load is calculated based on a bearing life of  $10^7$  rotations.
- 3. See the SPACEA" Bearing Dimension Table on P24–27 for load rating  $C_{\rm H}$  for stainless steel bearings.

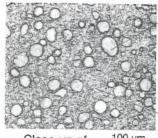


#### Features

- Molded-Oil<sup>™</sup> provides continuous supply of lubrication oil
- Grease-free property with no oil refilling keeps operating environments clean
- Operating life more than twice as long as grease lubrication, in water or dust-contaminated environments
- Contact-seal Type available in standard inventory (see P24–27)



#### Performance



Close-up of Molded-Oil™

100 μm

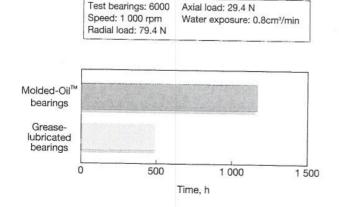
### Portion containing high proportion of polyolefin

Polyolefin is used for packaging food in supermarkets, replacing dioxin-generating vinyl chloride.

Portion containing high proportion of lubricating oil The lubricating oil is mineral oil-based.

#### Durability under wet conditions

Molded-Oil™ bearings have an operating life that is more than twice as long as that of grease-lubricated bearings.



### Durability in water-immersed conditions

Molded-Oil bearings have an operating life that is more than twice as long as that of grease-lubricated bearings.

