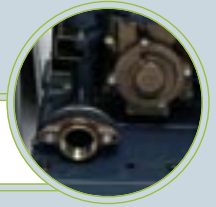


ELECTRICAL MACHINERY OR EQUIPMENT



DOMESTIC ELECTRIC WELL PUMP

The use of well pumps is especially common in rural areas, for watering flower beds and vegetable gardens. To enable cost-effective mass production of these pumps, the designers selected a modified type SUS XM7 stainless steel. The alloy composition and special surface treatment of this stainless steel made it the softest available austenitic grade. Its use in the pump has also demonstrated the excellent workability of this material for other deep drawing operations.

LOCATION/ENVIRONMENT	Japan - outdoor
PRODUCT	Cold rolled plate, sheet and strip
FABRICATION PROCESS	Deep drawing
GRADE	SUSXM7 Modified (17Cr-8Ni-3Cu-1.7Mn-Low C)
SURFACE	Lubrication
COMPETING MATERIAL	Coated steel
DATE OF COMPLETION	September 2003
MANUFACTURING COMPANY	Hitachi Home & Life Solution Co. Ltd.
MATERIAL SUPPLIER	Nisshin Steel Co. Ltd.
SOURCE OF INFORMATION	Japan Stainless Steel Association (JSSA)
REMARKS	The product received a prize in the "Products" category of the 2003 Stainless Steel Awards of the Japan Stainless Steel Association (JSSA).