YPT screw

Materials Mag!c
Hitachi Metals

For the molding of engineering plastics with glass fibers

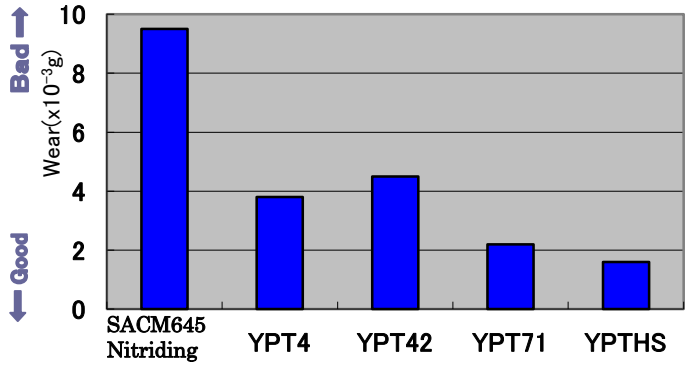
- ”YPT” screw has been consistently trusted by its good actual results for many records since ‘1969.
- ”YPT” screw is a solid type screw made of special steel to provide the uniformly good performance of wear and corrosion resistance from the outer surface to the inside of screw.
- ”YPT42” and ”YPT71” are improved materials from “YPT4” and abolished “YPT7”,which feature as follows.

YPT42 : High toughness and high corrosion resistance type. We recommend this material for such severe conditions as in high speed of an electric injection molding machine.

YPT71 : High wear resistance and high corrosion resistance type according to the fine microstructure by the powder metallurgy technology.

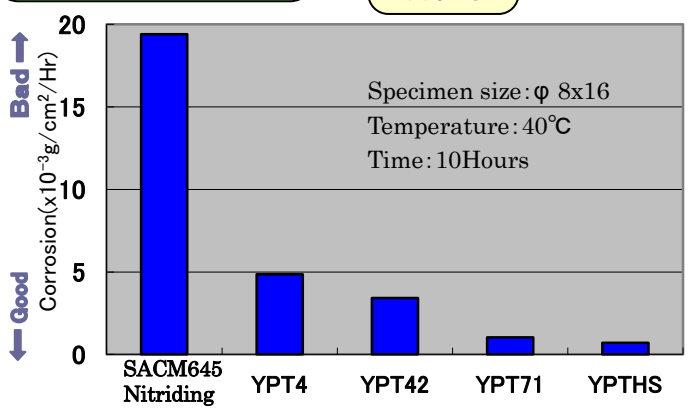
	YPT4	YPT42	YPT71	YPTHS
Hardness (HRC)	58±2	58±2	60±2	62±2
Tensile strength (MPa)	1716	2403	1765	2833
Yield point (MPa)	1520	2157	1569	2543
Elongation (%)	1. 1	3. 6	0. 8	
Reduction of area (%)	1. 2	5. 8	1. 0	
Bending strength (MPa)	2942	4903	3727	4728
Impact test [10R-Notch] ($x10^4 J/m^2$)	21. 6	43. 1	21. 6	18. 7

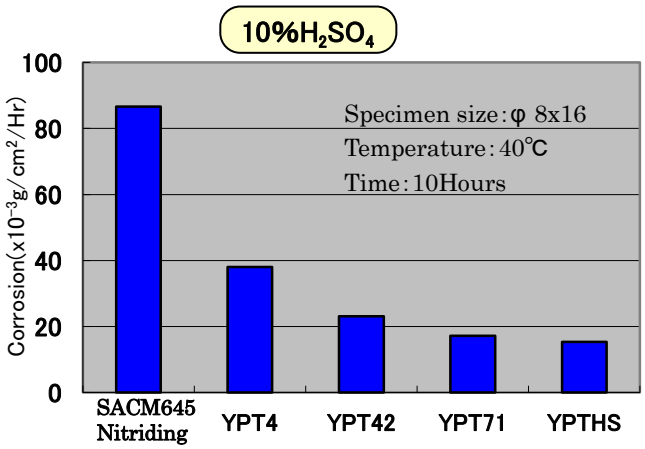
Wear resistance



Abrading material : SiO2 Slurry
Under 120μ m
Average mesh 30μ m
Water amount : 700ml
Specimen size : 5x10x20
Revolution : 800rpm
Time : 5Hours

Corrosion resistance





Note: The data in our report do not constitute any kind of warranty or guarantee.

Hitachi metals, Ltd. Specialty Steel Company Roll Business Unit 170401 [No. T-410(Rev.1)]
Shinagawa Season Terrace 2-70, Konan 1-chome, Minato-ku, Tokyo 108-8224 Japan
Tel.+81-3-6774-3385 Fax.+81-3-6774-4312 http://www.hitachi-metals.co.jp