

Grades and Specifications

Nisso HPC comply with the requirements of the National Formulary (USP/NF), the European Pharmacopoeia (EP) and the Japanese Pharmacopoeia (JP).

■ **Table 16. Grades and Specifications**

<USP/NF>

Items	Specification				
	SSL	SL	L	M	H
Grade					
Viscosity*(mPa·s)	2.0-2.9	3.0-5.9	6.0-10.0	150-400	1000-4000
Appearance of solution	Conforms				
Identification	Conforms				
pH	5.0-8.0				
Loss on drying	not more than 5.0%				
Residue on ignition	not more than 0.2%				
Hydroxypropoxyl group	not more than 80.5%				
Heavy metals	not more than 20 µg/g				
Lead (Pb)	not more than 0.001%				
Silica	not more than 0.6%				

*Measured the values of an aqueous solution containing 2% by weight of dry HPC at 20°C (60°F)

<EP>

Items	Specification				
	SSL	SL	L	M	H
Grade					
Viscosity*(mPa·s)	2.0-2.9	3.0-5.9	6.0-10.0	150-400	1000-4000
Appearance of solution	Conforms				
Identification	Conforms				
pH	5.0-8.5				
Loss on drying	not more than 7.0%				
Residue on ignition	not more than 1.6%				
Hydroxypropoxyl group	not more than 80.5%				
Heavy metals	not more than 20 µg/g				
Chloride	not more than 0.5%				
Silica	not more than 0.6%				

*Measured the values of an aqueous solution containing 2% by weight of dry HPC at 20°C (60°F)

<JP>

Items	Specification				
	SSL	SL	L	M	H
Grade					
Viscosity*(mPa·s)	2.0-2.9	3.0-5.9	6.0-10.0	150-400	1000-4000
Description of solution	Conforms				
Identification	Conforms				
pH	5.0-7.5				
Clarity of solution	Conforms				
Loss on drying	not more than 5.0%				
Residue on ignition	not more than 0.5%				
Hydroxypropoxyl group	53.4-77.5%				
Chlorides	not more than 0.142%				
Sulfate	not more than 0.048%				
Heavy metals	not more than 20 ppm				
Arsenic (As)	not more than 2 ppm				

*Measured the values of an aqueous solution containing 2% by weight of dry HPC at 20°C (60°F)