Insulation Paper

A type of paper made from softwood pulp by the sulphate method.It is widely used for high-voltage electrical appliances such as high-voltage cables, signal cables, electromagnetic wires, transformers, inductors and reactors.

Standard

- Q/JLLS 20471-2020
- GB 7969-2003
- IEC 554-3-1:1979

Regular Thickness

50μm/80μm/130μm/150μm/
180μm/ 200μm/300μm

Regular Width

- 1000mm /1200mm
- Offer cutting service
- Customization

Certificate Available

UL☐ RoHS ☐ REACH ☐ MSDS ☑ CEMT ☐
Factory Inspection Report ☑

Characteristics

- Good electrical and mechanical strength
- Low permittivity and high oil absorption

Industries

- Oil Transformer
- Current Transformer
- Cable
- Electrical Industry

Technical Data Sheet

Product name		Unit	Insulation Paper					
SECTION I - MAIN CHARACTERISTICS								
Thickness		μm	50	80	130	180	200	250
Tolerance		%	±10	±10	±10	±10	±10	±10
Tightness		g/cm^3	≥0.9	≥0.9	≥0.9	≥0.9	≥0.9	≥0.9
Air permeability		ml/min	≤35	≤35	≤35	≤35	≤35	≤35
Ash content		%	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7
Moisture content		%	6.0-9.0	6.0-9.0	6.0-9.0	6.0-9.0	6.0-9.0	6.0-9.0
Smoothness		s	≥30	≥30	≥30	≥30	≥30	≥30
SECTION II - MECHANICAL CHARACTERISTICS								
Tensile strength	MD	MPa	≥70	≥70	≥75	≥75	≥75	≥75
	CMD		≥35	≥35	≥35	≥35	≥35	≥35
Elongation	MD	%	≥2.0	≥2.0	≥2.0	≥2.0	≥2.0	≥2.0
	CMD		≥4.0	≥4.0	≥4.0	≥4.0	≥4.0	≥4.0
Shrinkage	MD	%	≤1	≤1	≤1	≤1	≤1	≤1
	CMD		≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5
Tear strength		mN	≥300	≥500	≥1020	≥1390	≥1700	≥2300
SECTION III - ELECTRICAL DATA								
Electric strength in air		kV/mm	≥9	≥9	≥9	≥9	≥9	≥9
Electric strength in oil		kV/mm	≥50	≥50	≥50	≥50	≥50	≥50
Conductivity of the aqueous extract		mS/m	≤8	≤8	≤8	≤8	≤8	≤8

Note: All information, recommendations and suggestions appearing herein concerning this product are average values ascertained at room temperature by regular statistical analysis. It is provided purely for information and shall not be regarded as binding unless expressly agreed otherwise.