TECHINCAL DATA SHEET

Description:

Our **22#** and **28#** latex-free, low-density polyethylene cleanroom paper is proudly produced to our spec here in the Pacific Northwest. This also gives us complete control over quality and direct access to a range of dimensions for both NA and EU sizing. Latex-free means our cleanroom paper is not limited and is safe to use in almost all controlled environments.

Both our **22#** and **28#** latex-free cleanroom paper have been injected with a low-density polyethylene synthetic copolymer to substantially reduce particle generation. Both have exceptional thickness and strength, with excellent heat resistance. Ideal for use in both laser and inkjet printers. Class 10 or ISO 3 certified

Applications:

28# is thicker and might be used when single-sheet cleanroom documentation is a priority. If the user is not printing off manuals, and their focus is one-page or two-page documentation, then this thicker sheet might be used. The weight of choice if the user is looking for a sheet that can be used in an autoclave.

22# is used most commonly due to its ideal thickness. It can be used for multi-page printed cleanroom materials or documentation, single or dual sheet purposes, machine instruction guides, cleanroom manuals and more. It is durable enough for almost all controlled environment applications and is less bulky overall.

For an additional cost, our **22#** and **28#** latex-free cleanroom paper can be three-hole-drilled for use in cleanroom binders.

Industries:

Aerospace, Medical, Semiconductor, Pharmaceutical, Cleanroom construction, Electronics and Laboratory Research.

MADE IN USA

22# Latex-free

Part #	Color	Description
PA22LF-WHI11	White	8.5"x11", cs-2,500 sheets
PA22LF-BLU11	Blue	8.5"x11", cs-2,500 sheets
PA22LF-CAN11	Canary	8.5"x11", cs-2,500 sheets
PA22LF-GRE11	Green	8.5"x11", cs-2,500 sheets
PA22LF-PIN11	Pink	8.5"x11", cs-2,500 sheets
PA22LF-CRE11	Cream	8.5"x11", cs-2,500 sheets
PA22LF-GOL11	Gold	8.5"x11", cs-2,500 sheets
PA22LF-GRY11	Grey	8.5"x11", cs-2,500 sheets
PA22LF-IVO11	Ivory	8.5"x11", cs-2,500 sheets
PA22LF-SAL11	Salmon	8.5"x11", cs-2,500 sheets
PA22LF-WHI14	White	8.5"x14", cs-1,250 sheets
PA22LF-BLU14	Blue	8.5"x14", cs-1,250 sheets
PA22LF-CAN14	Canary	8.5"x14", cs-1,250 sheets
PA22LF-GRE14	Green	8.5"x14", cs-1,250 sheets
PA22LF-PIN14	Pink	8.5"x14", cs-1,250 sheets
PA22LF-CRE14	Cream	8.5"x14", cs-1,250 sheets
PA22LF-GOL14	Gold	8.5"x14", cs-1,250 sheets
PA22LF-GRY14	Grey	8.5"x14", cs-1,250 sheets
PA22LF-IVO14	Ivory	8.5"x14", cs-1,250 sheets
PA22LF-SAL14	Salmon	8.5"x14", cs-1,250 sheets
PA22LF-WHI17	White	11"x17", cs-1,250 sheets
PA22LF-BLU17	Blue	11"x17", cs-1,250 sheets
PA22LF-CAN17	Canary	11"x17", cs-1,250 sheets
PA22LF-GRE17	Green	11"x17", cs-1,250 sheets
PA22LF-PIN17	Pink	11"x17", cs-1,250 sheets
PA22LF-CRE17	Cream	11"x17", cs-1,250 sheets
PA22LF-GOL17	Gold	11"x17", cs-1,250 sheets
PA22LF-GRY17	Grey	11"x17", cs-1,250 sheets
PA22LF-IVO17	Ivory	11"x17", cs-1,250 sheets
PA22LF-SAL17	Salmon	11"x17", cs-1,250 sheets

28# Latex-free

Part #	Color	Description
PA28LF-WHI11	White	8.5"x11", cs-2,500 sheets
PA28LF-BLU11	Blue	8.5"x11", cs-2,500 sheets
PA28LF-CAN11	Canary	8.5"x11", cs-2,500 sheets
PA28LF-GRE11	Green	8.5"x11", cs-2,500 sheets
PA28LF-CRE11	Cream	8.5"x11", cs-2,500 sheets
PA28LF-GRY11	Grey	8.5"x11", cs-2,500 sheets
PA28LF-IVO11	Ivory	8.5"x11", cs-2,500 sheets
PA28LF-PIN11	Pink	8.5"x11", cs-2,500 sheets
PA28LF-WHI14	White	8.5"x14", cs-1,250 sheets
PA28LF-BLU14	Blue	8.5"x14", cs-1,250 sheets
PA28LF-CAN14	Canary	8.5"x14", cs-1,250 sheets
PA28LF-GRE14	Green	8.5"x14", cs-1,250 sheets
PA28LF-CRE14	Cream	8.5"x14", cs-1,250 sheets
PA28LF-GRY14	Grey	8.5"x14", cs-1,250 sheets
PA28LF-IVO14	Ivory	8.5"x14", cs-1,250 sheets
PA28LF-PIN14	Pink	8.5"x14", cs-1,250 sheets
PA28LF-WHI17	White	11"x17", cs-1,250 sheets
PA28LF-BLU17	Blue	11"x17", cs-1,250 sheets
PA28LF-CAN17	Canary	11"x17", cs-1,250 sheets
PA28LF-GRE17	Green	11"x17", cs-1,250 sheets
PA28LF-CRE17	Cream	11"x17", cs-1,250 sheets
PA28LF-GRY17	Grey	11"x17", cs-1,250 sheets
PA28LF-IVO17	Ivory	11"x17", cs-1,250 sheets
PA28LF-PIN17	Pink	11"x17", cs-1,250 sheets

COLUMBIACLEANROOM

TECHINCAL DATA SHEET

Performance Characteristics	Spec	Data	Test Method	Tester
Basis weight (g/m2)	22# & 28#±43	101	KSM7013	Chern. Balance
Thickness (micro-m)	115±54	116	KSM7021	Thick Gauge
Tensile strength, kg/15mm (MD)	10±1 .0	11	KSM7014	Schopper
Tensile strength, kg/15mm (CD)	9±1.0	9.5	KSM7014	Schopper
Smoothness, sec (TOP)	30±10	32	KSM7028	Bekk
Smoothness, sec (Wire)	30±10	31	KSM	Bekk
Whiteness (%)	80 above	83	KSM	GE
Opacity (%)	80 above	81	KSM	GE
Moisture(%)	6.5±1.0	6	KSM	Rainweigh MB30
Ash(%)	1.0±0.5	.05		Furnace
Static build-up (V/cm)				SSD Statiron-DZ
-Before - friction (20°C, 60%RH)	5	5		
-After -friction (20°C, 60%RH)	50	45		
Surface resistivity	$2x 10^{11}$	$2 X 10^{11}$	Super Megohmmeter	SIMCO St-3
Particle (ea/cfm/0.3-1 mic.m)				Metone 1570H
Friction	<10 5		SEMI G67 -0996	
Crumpling	<10	7		
Tearing & Crumpling	<20	13		
Pulp dissolubility (min)	<20	16	TAPPI	Agitator
Extractable ions (ppm)				
NA	<300	240	ASTM D4085	ICP
K	100	67	ASTM D4085	ICP
C1	<20	5	Leaching Method	IC
804	<520	5.1	Leaching Method	IC

Remark: 1) Na, K:ASTM 04085 : 1993 Apply correspondingly
2) C1, S04 : Leaching Condition : Distilled Water 100ml/ 10g x room Temperature x 100rpm x 24hr

Additional Features: This Latex-Free paper has been injected with a **low density polyethylene synthetic copolymer** to substantially reduce particle generation. Exceptional thickness and strength, with excellent heat resistance. Ideal for use in printers and high speed photocopies. High opacity and "Class 10 Certified"