

散立冲高端护理环保材料

Nbond Sanlyzox high-end caring and environmental protection material

SANLYZOX 散立冲®


让源于自然的每一根纤维回归天更蓝水更清的世界
Return every fiber originated from nature to a world with bluer sky and clearer water



产品规格 SPECIFICATION

克重范围 Basis weight	45 ~ 80 g/m²
外观结构 Structure	平纹、轧花（可根据客户需求定制） Plain 、 Embossment(can be customized)
颜　色 Color	白色 White
成　分 Component	纤维素纤维 Cellulose fiber
幅　宽 Width	10 ~ 330 cm（可根据客户需求定制） (can be customized)

湿巾普及，环保压力剧增：

Wet wipes have been more popularized,thus has put more pressure on environment:

▶ 常规湿巾材料应用普及给我们带来卫生、便利的同时，也带来了一系列的废物处理问题，不断加重着环境保护的负担。未来市场需要一种　　对环境友好的材料，来替代传统的水刺湿巾材料。

The application of standard wet wipe material brings us hygiene and convenience, in the meantime, causes a series of waste treatment issue. This is increasing the environment protection burden. the market will need a Eco-friendly material which does not need to be land-filled or burned in case of waste treatment to replace traditional spunlace wet wipes material.

关注环保，“可冲散”概念诞生：

Highly Focused on environment protection---the concept of “flushable” has been born:

▶ 2004年，在美国非织造布工业协会（INDA) 的讨论会——美国人曼戈·菲利普先生对可冲入抽水马桶湿巾的过去、现在和未来的介绍，是国际上第一次完整地提出“可冲散性”非织造产品的概念：真正意义的可冲散产品应该是可冲出性、可分散性、可生物降解性三者的统一。

In 2004,on the discussion meeting of INDA--Mr Mungo phillipshad made an introduction on the past,presence and future of toilet tissue,this is the first time in the world, flushable concept had been completely put forward in nonwovens products field.The real flushable products is the combination of “the capability of being flushed out””dispersibility ”and”bio-degradablility”.

可冲出性
The capability of being flushed out

可冲散产品
Sanlyzox products

可分散性
Dispersibility

可生物降解性
Bio-degradablility

SANLYZOX 散立冲

2009

诺邦开始对可冲散产品进行研究开发

In 2009, Nbond started R&D on flushable products

2013

采用100%多规格纤维素纤维为原料的诺邦“散立冲Ⅰ代”水刺材料正式投入国际市场

In April 2013, Sanlyzon I had been commercialized and put into global market, this product is produced with 100% multi-specification cellulose fiber

2014

诺邦“散立冲”正式通过权威测试
诺邦无纺成为全国第一家能够实现可冲散型产品生产的企业

EARLY 2014, NBOND SANLYZOX HAS PASSED AUTHORITATIVE TEST, AND THEREFORE, NBOND NONWOVENS HAS BECOME THE FIRST MANUFACTURER IN CHINA TO PRODUCE FLUSHABLE PRODUCTS SANLYZOX Ⅰ

2015

诺邦“散立冲Ⅱ代”全面升级

In 2015, Nbond Sanlyzox II had been all-round upgraded

散立冲Ⅱ代、速散型散立冲 Ⅲ代成功研发上市

Rapidly-dispersible Sanlyzox III has been sucessfully launched

2016

诺邦“散立冲Ⅲ代”正式面世

In 2016, Nbond Sanlyzox III had been officially launched

2017

诺邦“竹柔散立冲”研发成功

Bamboo Sanlyzox has been successfully developed

2018

“速散型”散立冲成功研发上市

Rapidly-dispersible Sanlyzox has been successfully developed

2019

SANLYZOX 散立冲

极致性能领衔可冲散

Extreme performance , leading role in flushable

Technical Flushability Assessment

SANLYZOX 散立冲® 可冲散性能技术评估

4.1.1 FG501:TOILET AND DRAINLINE CLEARANCE TEST 马桶和下水道清除测试

Acceptance criteria:

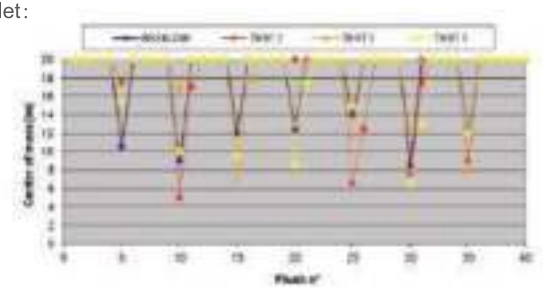
No more than 5% of the flushes containing product (3 flushes for hygienic wipes) should be associated with clogs that require use of a plunger to clear product and excess water from the bowl and trap.

PASSED

The travel distance of the centre of mass of the flushed material in the drain-line does not consistently decrease over the course of 5 consecutive flushes.

PASSED

Distance of the centre of mass of the flushed materal from the toilet:



Results: Evacuation from the toilet bowl: no product remaining in the toilet bowl or trap after none of the 105 flushes.

结果：在马桶和下水道清除测试中，验收标准为不超过5%的冲洗产品残留，诺邦散立冲105次冲洗后，没有产品遗留在马桶和凹陷处，并顺利通过排水管道，在管道中100%无任何残留.

4.1.2 FG502.R1(18):Slosh box Disintegration Test 晃动箱分解测试

Results: Percentage of material passing through the 12.5 mm sieve after 60 minutes:

After 60 min	REPL1	REPL2	REPL3	REPL4	REPL5	REPL6
RETAINED Dry mass (g)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
% mass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PASSED THROUGH %mass	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

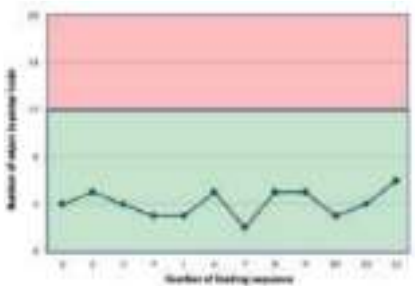
Acceptance criteria: **PASSED**

The percent of the starting dry mass passing through the 12.5mm perforated plate sieve after 60 minutes must be greater than 60% for at least 80% of the individual replicates tested.

结果： 在晃动箱分解测试中，验收标准为大于60%，诺邦散立冲6次测试后材料通过12.5mm筛网的比例均为100%，分散性能远超过验收要求。

4.1.3 FG503:HOUSEHOLD PUMP TEST 家用泵测试

Results: Amount of product in the pump basin at the end of each loading sequence:



Acceptance criteria:

The product must not cause the system to stop functioning at any point during the test; **PASSED**

The average number of articles present in the basin at the end of days 2 through 6 must not exceed the number of articles loaded on a daily basis. **PASSED**

结果：诺邦散立冲在家用泵测试中，泵系统稳定运行，满足该产品在任何时候都不能导致系统停止工作的验收准备；

第2到6天加载后，泵盆体中产品的平均数为4.4片，没有超过每天的加载量（24片），满足泵盆体中产品的平均数不能超过每天的加载片数的验收标准.

4.1.4 FG504:SETTLING TEST 沉降测试

Results: ● Average setting velocity: 2.86 cm/s ● The product stays at the bottom of the column after 24 hours

Acceptance criteria:

The average settling velocity for the articles that settle must exceed 0.1 cm/sec and at least 95% of the total articles tested must settle; **PASSED**

At least 95% of the articles tested must not becom sufficiently buoyant to rise more than 30 cm from the bottom within 24 hrs. **PASSED**

结果：在沉降测试中，验收标准为产品的平均沉降速度必须超过0.1cm/s，而且95%的产品发生沉降，诺邦散立冲所有样品发生沉降且停留在圆柱筒底部，平均沉降速度2.86cm/s，远远超出验收标准要求.

4.1.5 FG505: AEROBIC BIODISINTEGRATION TEST 有氧生物分解/生物降解测试

Results: Average percent of the initial dry mass passing through the sieve after 14 days: 100%

Acceptance criteria:

The average percent of initial dry mass passing through the 1 mm sieve after 14 days should exceed 95%. **PASSED**

结果：在有氧生物分解/生物降解测试中，验收标准要求14天后初始干重通过筛网的平均比例超过95%，诺邦散立冲通过比例为100%.

4.1.6 FG506: ANAEROBIC BIODISINTEGRATION TEST 无氧生物分解/生物降解测试

Results: Average percent of the initial dry mass passing through the sieve after 28 days: 100%

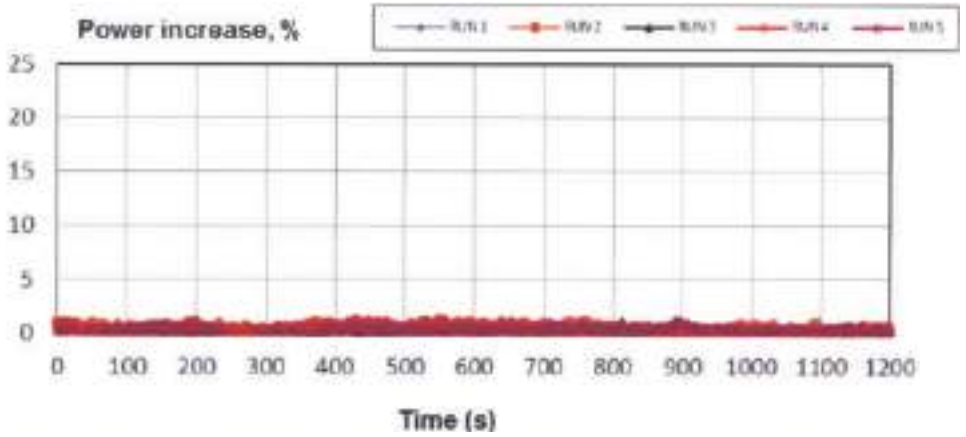
Acceptance criteria:

The average percent of initial dry mass passing through the 1 mm sieve after 28 days should exceed 95%. **PASSED**

结果：在无氧生物分解/生物降解测试中，验收标准要求28天后初始干重通过筛网的平均比例超过95%，诺邦散立冲通过比例为100%.

4.1.7 FG507.R1(18):Municipal Pump Test 市政排污泵测试

Results: Average power increase during the test:



Acceptance criteria:

Average % power increase over baseline	RUN1	RUN2	RUN3	RUN4	RUN5	Grand average
	0.45	0.28	0.90	0.49	0.21	0.47

Based upon integration of the power curves, the average percent power increase over baseline for the five runs must not exceed 5%	PASSED

(*)Guidelines for Assessing the Flushability of Disposable Nonwoven Products, Fourth Edition, May 2018

结果： 在市政排污泵测试中，验收标准要求5次运行功率增加超过基线的平均百分比不得超过5%，诺邦散立冲测试中5次运行功率增加超 优于验收标准要求。

PASSED

NBOND SANLYZOX passes the Technical Flushability Assessment and is qualified to support a flushable claim.

FG501.R1(18):Toilet Bowl & Drain-Line Clearance Test	PASSED
FG502.R1(18):Slosh box Disintegration Test	PASSED
FG503.R1(18):Household Pump Test	PASSED
FG504.R1(18):Settling Test	PASSED
FG505A.R1(18):Aerobic biodisintegration Test	PASSED
FG506A.R1(18):Anaerobic biodisintegration Test	PASSED
FG507.R1(18):Municipal Pump Test	PASSED

FLUSHABLE CLAIM APPROPRIATE

因此，如上面的流程图显示，诺邦散立冲产品经过法国 ctp 测试机构依据INDA/EDANA可冲散技术标准评定，具有100%可冲散性和100%可生物降解性。

Therefore, as shown in the flow chart above, Nbond Sanlyzox has been tested by French ctp and has passed the Technical Flushability Assessment based on the specifications listed by INDA/EDANA, which further indicates that Nbond Sanlyzox is 100% flushable and 100% biodegradable.

This technical assessment is carried out in accordance with the specifications listed in the Guidelines for Assessing the Flushability of Disposable Nonwoven Products, Fourth Edition, May 2018.

(此次技术评估根据2018年5月第四版《一次性可冲散无纺产品性能评估指导文件》评判)

优异性能体现
Excellent performance



卫生、清洁
Hygiene,Clean

环保、安全
Eco-friendly
and Safe





易于加工、方便使用
Easy to process,
Convenient to use

舒适、亲肤
Comfortable and
Skin-attaching



SANLYZOX 散立冲

常规物性指标
Standard physical index

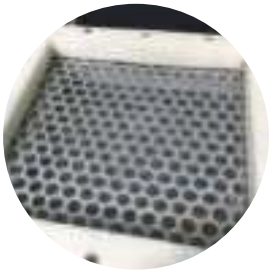
产品名称	型号	克重（gsm）	厚度（mm）	干态断裂强力（N/5cm）		湿态断裂强力（N/5cm）		晃动箱测试分散性	
				CD	MD	CD	MD	晃动时间（min）	筛网通过率（%）
散立冲1代	G-S5502Q	55?4	0.46	15.6	41.8	5.1	8.7	5	≥90
散立冲2代	H-S5502Q	55?4	0.37	13.7	36.1	4.9	8.0	5	≥90
散立冲4代	H-S5502Q-4	55?4	0.35	13.4	33.3	5.6	7.9	4	≥90
速散型散立冲2代	H-S5502S-2	55?4	0.37	11.9	32.8	4.0	5.5	3	≥90
速散型散立冲2代	H-S4502S-2	45?3	0.32	9.1	23.7	3.2	4.8	3	≥90
速散型散立冲3代	H-S4502S-3	45?3	0.31	11.8	24.8	4.5	6.1	2	≥90

分散性指标测试
Dispersibility standard test

Sanlyzox 散立冲 I	晃动箱测试5min，经过12mm筛网通过率≥90%. SLOSH BOX TEST FOR 5 MINUTES, WITH A SIEVE OF 12MM PASSING RATE OF 9
Sanlyzox 散立冲 II	晃动箱测试5min，经过12mm筛网通过率≥90%. SLOSH BOX TEST FOR 5 MINUTES, WITH A SIEVE OF 12MM PASSING RATE OF 9
Sanlyzox 散立冲 IV	晃动箱测试4min，经过12mm筛网通过率≥90%. SLOSH BOX TEST FOR 4 MINUTES, WITH A SIEVE OF 12MM PASSING RATE OF 9
Rapidly-dispersible II 速散型散立冲 II	晃动箱测试3min，经过12mm筛网通过率≥90%. SLOSH BOX TEST FOR 3 MINUTES, WITH A SIEVE OF 12MM PASSING RATE OF 9
Rapidly-dispersible III 速散型散立冲 III	晃动箱测试2min，经过12mm筛网通过率≥90%. SLOSH BOX TEST FOR 2 MINUTES, WITH A SIEVE OF 12MM PASSING RATE OF 9



晃动箱
Slosh box



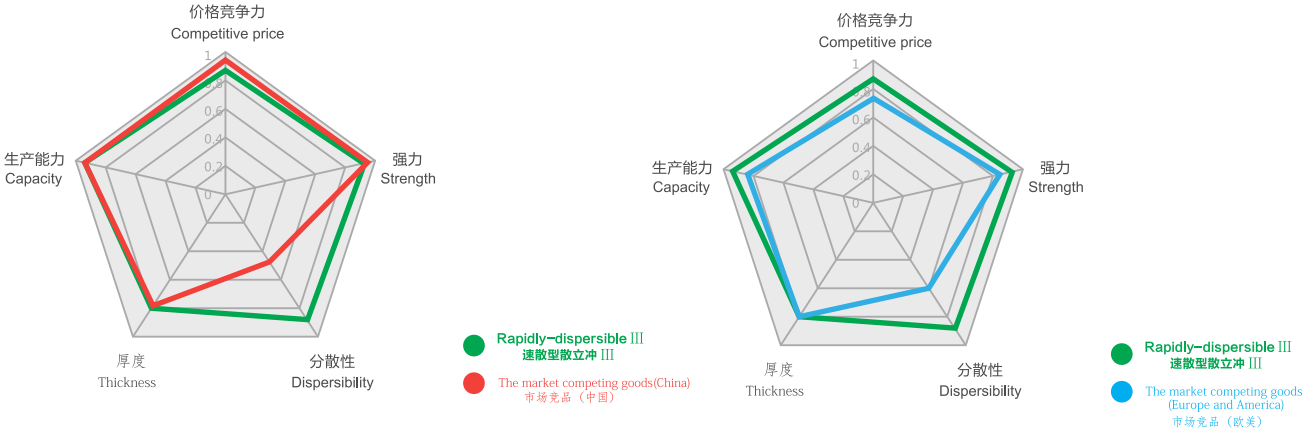
12mm筛网
12mm sieve

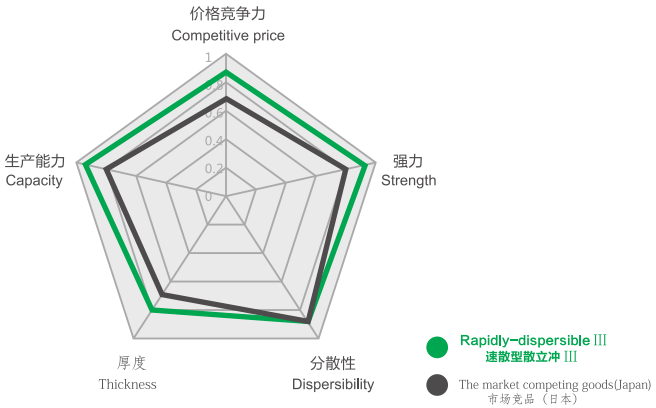


水淋冲走
Washed away

SANLYZOX 散立冲

产品对比雷达图
Comparative rador map





SANLYZOX 散立冲

产品应用领域
Bi-lo dry-wet bi-functional material

散立冲高端护理环保材料运用领域包括如厕湿巾、婴儿湿巾、家用清洁湿巾、医用湿巾和消毒湿巾等。

High-end eco-friendly Sanlyzox caring materials can be applied in toilet wet wipes,baby wet wipes, household wet wipes, medical wet wipes, Disinfection wet wipes and etc.





SYWIPE®

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