



江苏苏青水处理工程集团有限公司

Jiangsu Suqing Water Treatment Engineering Group Co., Ltd.

苏青核级阳树脂 SQ016NG

Suqing Nuclear Grade Cation Resin SQ016NG

SQ 016NG 作为凝胶型均一系强酸性阳离子交换树脂, 物理化学稳定性高, 长时间使用时树脂破碎率低, 是核电厂一回路等优级水外理专用树脂, 通常以 H 型供货。

SQ016NG is UPS SAC resin which features excellent mechanical and chemical stability, and low crush rate after long term use. It is widely used for premium water treatment such as primary circuit for nuclear power plant.

▲ 树脂的物化性能指标(Physical and Chemical Properties)

项目 Item	单位 Unit	规格 Specification
树脂骨架(Matrix Structure)		聚苯乙烯(Polystyrene)
功能基团(Functional Group)		磺酸基(Sulfonic acid)
交换容量(Total Exchange Capacity)	eq/L	≥2.4
含水量(Water Retention Capacity)	%	37-43
转型率(Ionic Conversion Hydrogen)	%	≥99
均一系数(Uniformity Coefficient)		1.1max
平均粒度(Average diameter)	mm	0.50~0.60
整球率(Whole Bead)	%	≥95
杂质(Impurities)		
铝(Aluminum)	ppm	≤30
钙(Calcium)	ppm	≤30
钴(Cobalt)	ppm	≤20
铜(Copper)	ppm	≤10
铁(Iron)	ppm	≤50
铅(Lead)	ppm	≤10
镁(Magnesium)	ppm	≤30
汞(Mercury)	ppm	≤10
钾(Potassium)	ppm	≤30
钠(Sodium)	ppm	≤50
锌(Zinc)	ppm	≤50

▲ 建议操作条件 Recommended Operating Conditions:

操作温度(Operating Temp) (°C) : 120↓

PH (pH Range) : 0~14

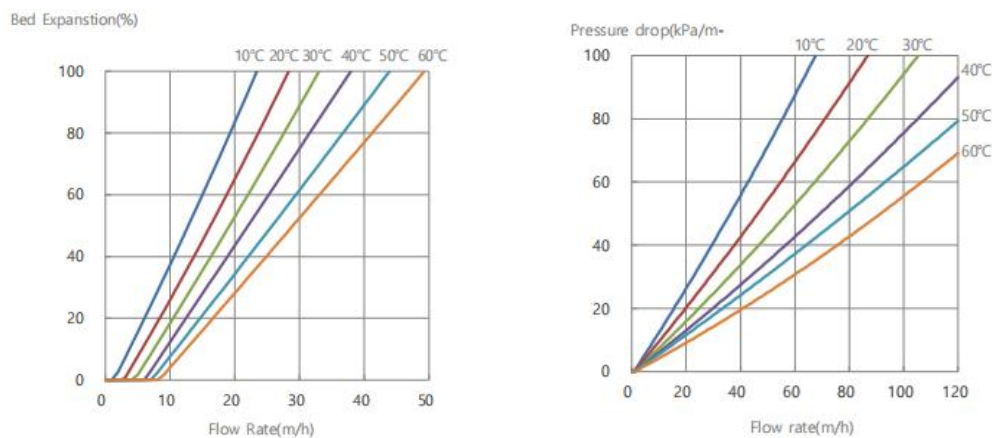
床高(Bed Depth)(mm): ≥800

流速(Service Flow Rate)(m/h): 5~120

▲ 水力特性曲线 Hydraulic Characteristics

下图显示了 SQ016NG 的反洗膨胀和压差与流速和温度的函数关系。

Below Figures show the backwash expansion and pressure drop of SQ016NG as a function of flow rate and temperature.



▲ 包装(Packing)

50L 桶装。

50L Drum.

江苏苏青水处理工程集团有限公司

Jiangsu Suqing Water Treatment Engineering Group Co.,Ltd.

地址(Add): 江苏省江阴市河塘长青路 89 号

No.89 Changqing Road,Hetang,Jiangyin,Jiangsu,China

电话(Tel): 0510-86331801 传真(Fax): 0510-86331113

E-mail: suqingsxj@suqing.com





江苏苏青水处理工程集团有限公司

Jiangsu Suqing Water Treatment Engineering Group Co., Ltd.

苏青核级阴树脂 SQ120NG

Suqing Nuclear Grade Anion Resin SQ120NG

SQ120NG 作为凝胶型均一系高交联度强碱性阴离子交换树脂，物理化学性能非常卓越，长时间使用树脂的破碎率低，是核电厂一回路等优级水外理专用树脂，通常以 OH 型供货。在核电厂系统的阴离子装置中填充，标准运行条件下可以维持 $\Delta\text{TOC}10\text{ppb} \downarrow$ 的出水水质。

SQ120NG is UPS SBA resin (Gel type 1) which features excellent mechanical/ chemical stability and low crush rate after long term use. It is widely used for premium water treatment such as nuclear power plant, and under the standard operating conditions, it maintains less than TOC 10ppb of outlet water quality.

▲ 树脂的物化性能指标(Physical and Chemical Properties)

项目 Item	单位 Unit	规格 Specification
树脂骨架(Matrix Structure)		聚苯乙烯(Polystyrene)
功能基团(Functional Group)		Type1(Trimethylammonium)
交换容量(Total Exchange Capacity)	ea/L	≥ 1.2
含水量(Water Retention Capacity)	%	54-65
离子转型率 Ionic Form Conversion OH^-	%	≥ 95
离子转型率 Ionic Form Conversion CO_3^{2-}	%	≤ 5
离子转型率 Ionic Form Conversion SO_4^{2-}	%	≤ 0.1
离子转型率 Ionic Form Conversion Cl^-	%	≤ 0.2
均一系数(Uniformity Coefficient)		1.1 max
平均粒径(Average diameter)	mm	0.58~0.68
整球率(Whole Bead)	%	≥ 95
杂质(Impurities)		
铝(Aluminum)	ppm	≤ 40
钙(Calcium)	ppm	≤ 50
钴(Cobalt)	ppm	≤ 10
铜(Copper)	ppm	≤ 10
铁(Iron)	ppm	≤ 50
铅(Lead)	ppm	≤ 10
镁(Magnesium)	ppm	≤ 50
汞(Mercury)	ppm	≤ 10
钾(Potassium)	ppm	≤ 40
钠(Sodium)	ppm	≤ 20
锌(Zinc)	ppm	≤ 50
硅(silica)	ppm	≤ 100
总氯(Total Chloride)	ppm	≤ 500

总磺酸盐(Total Sulfate)	ppm	≤600
总硅(Total Silica)	ppm	≤100

▲ Recommended Operating Conditions:

操作温度(Operating Temp) (°C) : 60↓

PH (pH Range) : 0~14

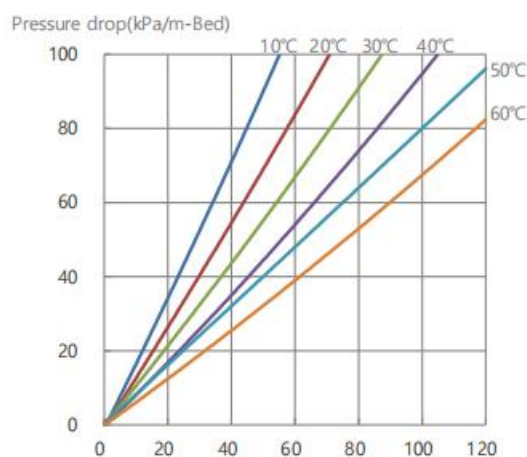
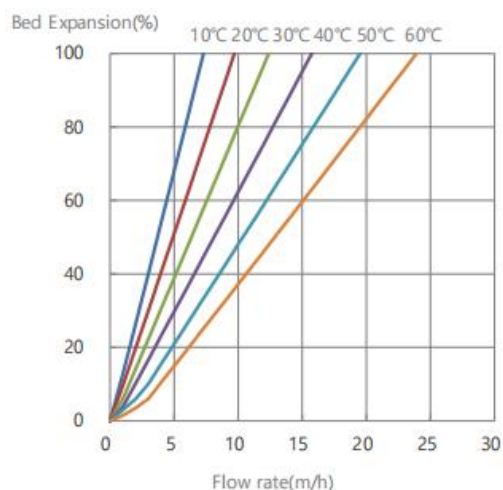
床高(Bed Depth)(mm): ≥800

流速(Service Flow Rate)(m/h): 5~120

▲ 水力特性曲线 Hydraulic Characteristics

图 1 和图 2 显示了 SQ120NG 的反洗膨胀和压差与流速和温度的函数关系。

Figure 1 and 2 show the backwash expansion and pressure drop of SQ120NG as a function of flow rate and temperature.



▲ 包装(Packing)

50L 桶装。

50L Drum.

江苏苏青水处理工程集团有限公司

Jiangsu Suqing Water Treatment Engineering Group Co.,Ltd.

地址(Add): 江苏省江阴市河塘长青路 89 号

No.89 Changqing Road, Hetang, Jiangyin, Jiangsu, China

电话(Tel): 0510-86331801 传真(Fax): 0510-86331113

E-mail: suqingsxj@suqing.com

