

クリーンパイプ

High Purity Clean Pipe

STAINLESS STEEL PIPE



NSCP®

NIPPON STEEL CLEAN PIPE

高い清浄性と優れた内面平滑性を誇る
半導体製造用クリーンパイプが

『NSCP®』ブランドとして新しい価値創造へ。

The clean pipe for semiconductor manufacturing, which has high cleanliness and superior inner-face smoothness, has been given the new brand name as NSCP® to create new value

旧住友金属工業が1993年より製造を開始した半導体製造用クリーンパイプは、高純度鋼の選別と独自の内面加工により

溶接施工性と内面平滑性、清浄性に優れ、国内外より高い評価を頂いております。

今回、多くの供給実績を積み上げてきた当社の半導体製造用クリーンパイプは、新たに『NSCP®』ブランドへと進化。

ますます高度化する半導体業界を支えるクリーンパイプとして生まれ変わります。

Sumitomo Metal Industries, Ltd. started manufacturing its high quality clean pipes for semiconductor manufacturing in 1993.

Using high-cleanliness steel and its original internal processing technique allows the product to boast excellent weldability, inner-face smoothness and cleanliness, and this pipe has been highly evaluated by customers both inside and outside Japan.

We have supplied vast amounts of clean pipes for semiconductor manufacturing so far. These pipes have been given a new brand name, NSCP®, to restart them as clean pipes that support the rapidly advancing semiconductor industry.

NSCP Series

(新開発製品 Newly developed product)

NSCP N

NIPPON STEEL CLEAN PIPE

高耐食のNi基材料を使用することで、従来の316Lでは耐食性に懸念がある腐食性の高いガス環境においても低汚染、配管の長寿命化を実現。

Using a highly corrosion-resistant Ni-based material achieves low contamination and long service lives for piping, even in a highly corrosive gaseous environment that may corrode the conventional 316L.

(旧 SUMCLEAN M Old SUMCLEAN M)

NSCP D

NIPPON STEEL CLEAN PIPE

不純物元素および非金属介在物を極限まで低減した真空二重溶融(VIM + VAR)材を使用することで、母材はもとより溶接施工性においても高い性能を維持。

By using a vacuum double-melt (VM + VAR) material with impurity elements and non-metal inclusion being reduced as much as possible, high performance is maintained not only for the base material's properties but also for the weldability of processed pipes.

(旧 SUMCLEAN C Old SUMCLEAN C)

NSCP S

NIPPON STEEL CLEAN PIPE

シングルメルトながら不純物元素を低減し、豊富な鋼種、仕上げのバリエーションを持ち、幅広い部材、用途に対応。

Although it uses a single-melt material, this pipe has lower impurity elements, many variations in steel types and finishing processes, and is applicable to a wide variety of members and uses.

(旧 SUMIWEL Old SUMIWEL)

NSCP A

NIPPON STEEL CLEAN PIPE

溶接管製造時に管内面の溶接ビードを圧延し、その後、機械研磨を施すことで内面平滑性を確保。

Bead Rolling on the inner surface of a pipe at the time of making a welded pipe and mechanical polishing or additional electro-polishing afterward are applied to secure the inner surface smoothness.

NSCP N シリーズの優れた特徴

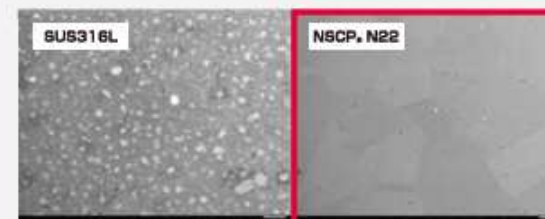
Excellent features of NSCP N

優れた耐食性

High corrosion resistance

日本製鉄グループの高度な品質管理により、安定製造が難しいNi基材料をクリーンパイプに適用することで、優れた耐食性を実現。

Under NIPPON STEEL Group's highly sophisticated quality control system, an Ni-base material, which is difficult to produce with stable quality, is applied to clean pipes to achieve excellent corrosion resistance.



[Suzawa Lab. Tohoku Univ.]

HBrガス腐食試験後 HBr Exposure Test Results (120°Cx24 h)