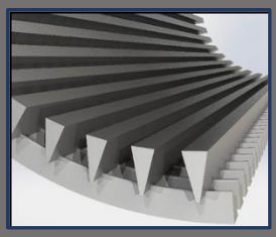
The Armouring Screen Technology

XT and AT *EaziGoFlo*® Sand Screen

Our smart screen solution is a metal screen (mainly SS 316L) with a surface of a diffused strong surface Boron finish, what makes him as strong as a ceramic screen, but without being brittle

XT - Design – Basic Wire Wrapped Screen



A straightforward open design without Base Pipe, strong Screen structure
Excellent flow parameters
Suitable for all types of installation purposes
The shape of the slots allows the bridging of the grain sizes outside slot opening and keeping the Screen open

AT - The Enhancement – Armouring Technology

B_4C – Highest Knoop hardness after Diamond
A thermochemical surface treatment, up to 8 times harder
Boron diffuses into the metal surface
Surface layer extremely hard and wear-resistant
Erosion resistance – tested with high velocity
Corrosion resistance
Cavitation resistance

Source: Fraunhofer IEG

ADVANTAGES and BENEFITS

- Proven Wire Wrapped Screen Application **(++)**
- No Base Pipe – Flow environment **(++)**
- No Coating can get loose **(++)**
- Full Coverage out- and inside Screen **(++)**
- Sharp Edges unchanged by treatment with Boron **(++)**
- Very competitive in pricing and investment return (++)

1st Place in High-Speed Erosion Gas-Test after SPE-191942-MS

Exceptional resistance to wear: The higher the hardness, the lower the erosion

www.msc-resources.com **info@msc-resources.com**

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XT - Technical Specifications – Basic Wire Wrapped Screen

Profile Wire Type			
Profile Type	B - mm	H - mm	A - mm²
V 10	1,00	2,00	1,44
V 20	2,00	3,00	4,00
V 25	2,50	3,50	5,51
V 30	3,00	4,00	7,58
V 34	3,40	6,80	15,27
V 35	3,50	5,00	10,75
V 40	4,00	6,00	14,42
V 40.9	3,97	9,18	24,14
V 50	5,00	10,00	29,28

The Profile Wire Type

Depending on projected Formation Pressure
For the wrapping wire and the support rods to get the essential mechanical strength of the Basic Wire Wrapped Sand Screen

Material Selection

Material Selection - Stainless Steel only	
Material No.	Brand Name
V2A - Cr-Ni Steel	
1,4301	AISI 304
1,4306	AISI 304L
1,4541	AISI 321
V4A - Cr-Ni-Mo Steel	
1,4404	AISI 316 L
1,4571	AISI 316T
High-Alloyed Steel	
1,4370	ER 307
1,4410	Alloy 2507
1,4462	AISI 318LN
1,4501	Zeron 100
1,4529	Alloy 926
1,4539	AISI 904L
2,4360	Monel 400
2,4816	Inconel 600
2,4819	Hastelloy c276
2,4856	Inconel 625
2,4858	Incoloy 825
3,7035	Titan 994

All listed Materials were used in the Basic Wire Wrapped Screen for different application.

The right Material Selection is compulsory to prevent Corrosion and Erosion for the XT and for the desired mechanical strength.

Length each AT Module, stackable	1.750m (1.450m Screen)
OD Range (inch)	1.315” to 9 5/8”
Slot Size Range	from 50 µm
Achievable Collapse Strength	> 4,230 psi
Achievable Tensile Strength	> 50 to
Achievable Dogleg Severity	> 15°

AT - The Enhancement Specification – Armouring Technology

Corrosion Resistant for

- Nonoxidizing Acids: Hydrochloric Acid, Hydroiodic Acid, Hydrobromic Acid, Hydrofluoric Acid, Phosphoric Acid
- Alkali: i.e., Sodium Hydroxide, Potassium Hydroxide

Exceptional resistance to wear: The higher the hardness, the lower the erosion

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