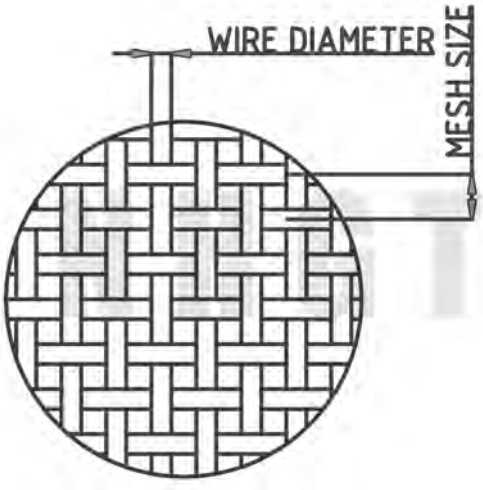
NHGT®

NICKEL MESH (woven type)

Get Green Energy of Hydrogen in Economical Way.

PRODUCT DETAIL



Features & Benefits

Brief Introduction

NHGT specializes in producing high-purity woven nickel mesh for water electrolysis hydrogen industry. The nickel wires we use are produced under high purification processes like crystallization, and solid state to ensure a satisfying purity of Ni>99.9%.

As a kind of green energy, hydrogen has been increasingly applied. How to produce pure hydrogen with minimum pollution to the environment becomes the main focus of the world to pursue sustainable development. Water electrolysis hydrogen is just the silver bullet we are looking for.

It's a process of using electricity to split water into hydrogen and oxygen. The cathode and anode of alkaline electrolysis water are mainly composed of metal alloys, using nickel mesh as the diaphragm. Water will be electrolyzed into hydrogen and oxygen under the action of direct current. And the generated gas needs further dealkalization to get purer.

Corrosion resistant nickel mesh takes the place of noble metals as the electrode, enabling us to get hydrogen in an economical way.

ECONOMICAL FOR HYDROGEN PRODUCTION

As we mentioned above, the electrolysis of water is the most environmentally friendly and sustainable method for green energy production of high-purity hydrogen. But the shortcoming of this method lies in the high cost of using noble metals as electrodes. Being abundant and economical, nickel mesh resolved the problem perfectly as an alternative.

A rough coating with a porous structure will be attached to the surface of the nickel mesh by plasma spraying technology. This special treatment will greatly increase the contact area between the nickel mesh and liquid in the electrolytic cell to produce hydrogen effectively.

NICKEL MESH (WOVEN DESIGN)				
OVERALL WIDTH	**OVERALL LENGTH**	**WIRE DIAMETER**	**MESH NO.S PER INCH**	**MESH SIZE (C2C)**
≤ 2 m	≤ 300 m	0.50 mm	10 no.s	2.540 mm
		0.35 mm	20 no.s	1.270 mm
		0.15 mm	30 no.s	0.847 mm
		0.35 mm	30 no.s	0.847 mm
		0.12 mm	40 no.s	0.635 mm
		0.15 mm	50 no.s	0.508 mm
		0.20 mm	50 no.s	0.508 mm
		0.12 mm	60 no.s	0.423 mm
		0.25 mm	60 no.s	0.423 mm
		0.10 mm	80 no.s	0.318 mm
		0.18 mm	80 no.s	0.318 mm
		0.10 mm	100 no.s	0.254 mm
		0.15 mm	100 no.s	0.254 mm
		0.08 mm	120 no.s	0.212 mm
		0.06 mm	150 no.s	0.169 mm
		0.06 mm	180 no.s	0.141 mm
		0.05 mm	200 no.s	0.127 mm
		0.05 mm	250 no.s	0.102 mm
		0.04 mm	300 no.s	0.085 mm
		0.03 mm	350 no.s	0.073 mm
		0.03 mm	400 no.s	0.064 mm
SURFACE TREATMENT		NONE PLASMA SPRAY (50%ALUMINUM + 50% NICKEL) PLASMA SPRAY (20%ALUMINUM + 80% NICKEL) PLASMA SPRAY (80%ALUMINUM + 20% NICKEL)		

CUSTOMIZED specifications acceptable.

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NHGT was established to provide pure nickel mesh in a variety of specifications for all levels of industries. Powerful production capacity and industry-beating service earned us a good reputation, enabling us to establish sustainable business relationships with worldwide customers. If you want to know more about us, please visit our website http//:nickelgreen.com

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