

**Welcome to a more beautiful  
world of steel**

SÖDERFORS 1676

**DAMASTEEL®**

CUTTING EDGE. AND LOOKS TOO.™

# Damacore<sup>®</sup> DC18N

Per Jarbelius  
Brian Tighe



SÖDERFORS 1676

**DAMASTEEL<sup>®</sup>**

CUTTING EDGE. AND LOOKS TOO.™

# Beauty and function combined

- The result of a radical process and product innovation
- Damasteel's process gives the Damacore<sup>®</sup> DC18N unique and exceptional properties that combines beauty and function that until now has not been possible to produce.

SÖDERFORS 1676

**DAMASTEEL<sup>®</sup>**

CUTTING EDGE. AND LOOKS TOO.™

# Challenging product and process development

- Combining steels grades optimizing contrasting effect
  - Etching
  - Heat treatment process
  - Mechanical properties
- Centering of the core for perfect result
  - New manufacturing process

# Damacore<sup>®</sup> DC18N

- Damasteel's stainless Damascus patterned steel, Damacore<sup>®</sup> DC18N is a powder metallurgy-based steel with three different alloys.
- The center core consists of N11X<sup>™</sup>, a high nitrogen steel with distinctive properties combining outstanding corrosion resistance with edge sharpness, wear resistance, strength and ductility.

SÖDERFORS 1676

**DAMASTEEL<sup>®</sup>**

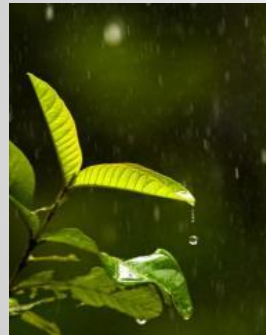
CUTTING EDGE. AND LOOKS TOO.™

# Damasteel<sup>®</sup> N11X Martensitic steel

Successor to Nitrobe77<sup>™</sup> Martensitic steel



ABRASIVE WEAR  
RESISTANCE  
60 HRC



STAINLESS IN PARITY  
WITH AUSTENITIC  
AISI 316L



GOOD DUCTILITY:  
> 30 J UNNOTCHED  
TRANSVERSE  
DIRECTION

C	N	Cr
0.35	1.55	18.2
%	%	%

VERY HIGH  
NITROGEN CONTENT  
AND FAVORABLE  
NITRO-CARBIDES

SÖDERFORS 1676

**DAMASTEEL<sup>®</sup>**

CUTTING EDGE. AND LOOKS TOO.™

# Damacore<sup>®</sup> DC18N<sup>™</sup>

- The Damascus patterned outer layers consists of RWL34<sup>™</sup> and PMC27<sup>™</sup>.
- The combination of corrosion resistance and hardenability is the reason for its suitability as knife material and has for long been cherished in Damasteel<sup>®</sup> DS93X martensitic Damascus patterned steel.

SÖDERFORS 1676

**DAMASTEEL<sup>®</sup>**

CUTTING EDGE. AND LOOKS TOO.™

# Damacore<sup>®</sup> DC18N

- These three alloys combined in Damasteel's process gives the Damacore<sup>®</sup> DC18N unique and exceptional properties that combines beauty and function that until now has not been possible to produce.
- Damacore<sup>®</sup> DC18N is a patented product.

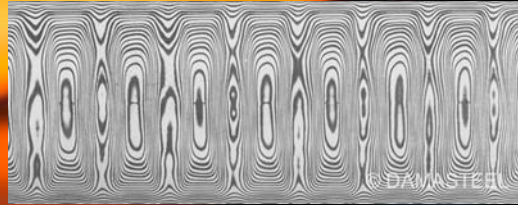
SÖDERFORS 1676

**DAMASTEEL<sup>®</sup>**

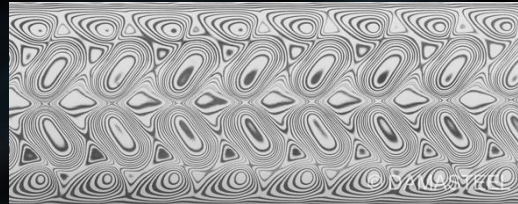
CUTTING EDGE. AND LOOKS TOO.™



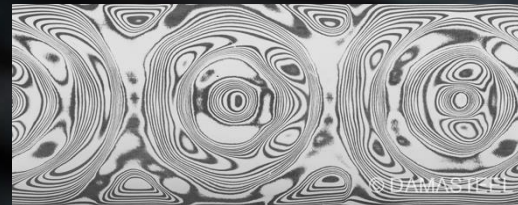
# Damacore<sup>®</sup> Patterns



Odins Eye™



Hakkapella™



Grosserosen™

SÖDERFORS 1676

**DAMASTEEL<sup>®</sup>**

CUTTING EDGE. AND LOOKS TOO.™



SÖDERFORS 1676

**DAMASTEEL®**

CUTTING EDGE. AND LOOKS TOO.™



SÖDERFORS 1676

**DAMASTEEL®**

CUTTING EDGE. AND LOOKS TOO.™

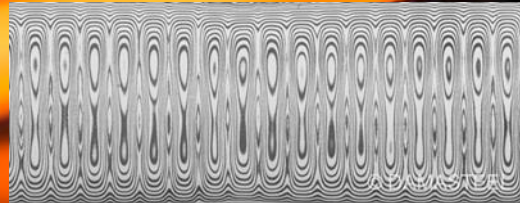


SÖDERFORS 1676

**DAMASTEEL®**

CUTTING EDGE. AND LOOKS TOO.™

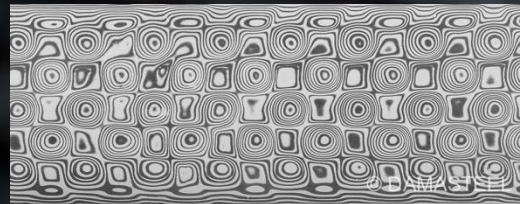
# Damacore<sup>®</sup> Future Patterns



Hugin™



Thor™



Rose™

SÖDERFORS 1676

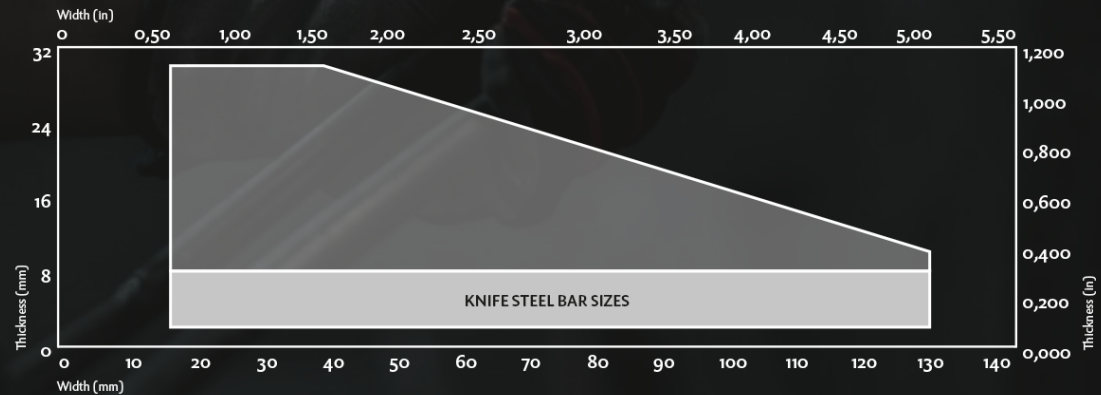
**DAMASTEEL<sup>®</sup>**

CUTTING EDGE. AND LOOKS TOO.™

# Dimension program

Thicknesses from .100" to .275"

BESPOKE PRODUCTS CAN BE SUPPLIED WITHIN THE LIMITS SHOWN IN CHART.



SÖDERFORS 1676

**DAMASTEEL®**

CUTTING EDGE. AND LOOKS TOO.™

# Knife performance

- Razor sharp
- Superior Edge holding
- Superiour Toughness
- Corrosion resistant
- Easy to maintain

Made to be (ab) used

SÖDERFORS 1676

**DAMASTEEL®**

CUTTING EDGE. AND LOOKS TOO.™

# Why choose Damasteel®?

Damasteel® is the best performing stainless Damascus patterned steel in the world using the latest gas-atomized PM technology with very high cleanliness.

- Patented Powder Metallurgy product.
- Solid steel technology resulting in a homogenous product.
- Highest cleanliness with no inclusions.
- Incomparable toughness and strength.
- Excellent edge retention and corrosion resistance.
- Superior edge sharpness and cutting ability.
- Top quality and easy to work with ensures perfect result.
- Best overall performing stainless Damascus patterned steel.

SÖDERFORS 1676

**DAMASTEEL®**

CUTTING EDGE. AND LOOKS TOO.™





SÖDERFORS 1676

**DAMASTEEL<sup>®</sup>**

CUTTING EDGE. AND LOOKS TOO.™