

This page is mainly introduced the X6CrNi25-21 chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X6CrNi25-21, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Data Table for Grades Stainless Steels X6CrNi25-21

X6CrNi25-21 Standard Number:		
ITEM	Standard Number	Descriptions
1	ISO 4955 (2005)	Heat-resistant steels
2	ISO 9327-5	Steel forgings and rolled or forged bars for pressure purposes - Technical delivery conditions - Part 5: Stainless steels

X6CrNi25-21 Chemical composition(mass fraction)(wt.%)		
Chemical	Min.(%)	Max.(%)
C		0.08
Si		1.50
Mn		2.00
P		0.045
S		0.030
Cr	24.00	26.00
Ni	19.00	22.00

X6CrNi25-21 Physical Properties		
Tensile strength	115-234	σ_b /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_{5\%} \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	$Akv \geq$ /J
HBS	123-321	-
HRC	30	-

X6CrNi25-21 Mechanical Properties		
Tensile strength	231-231	σ_b /MPa

Yield Strength	154	$\sigma_{0.2} \geq / \text{MPa}$
Elongation	56	$\delta_5 \geq (\%)$
ψ	-	$\psi \geq (\%)$
Akv	-	$Akv \geq / \text{J}$
HBS	235-268	-
HRC	30	-

X6CrNi25-21 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

X6CrNi25-21 Range of products

Product type	Products	Dimension	Processes	Deliver Status
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Steel Bar	Round Bar, Flat Bar, Square Bar	$\Phi 8$ -1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,
Coil / Strip	Steel Coil / Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot-Rolled	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID-WASHED

We can produce Stainless Steels the specifications follows:

```

<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <style type="text/css">
    html, body, #partner, iframe {
      height: 100%;
      width: 100%;
      margin: 0;
      padding: 0;
      border: 0;
      outline: 0;
      font-size: 100%;
      vertical-align: baseline;
      background: transparent;
    }
  
```

```
body {
  overflow: hidden;
}
</style>
<meta content="NOW" name="expires">
<meta content="index, follow, all" name="GOOGLEBOT">
<meta content="index, follow, all" name="robots">
<!-- Following Meta-Tag fixes scaling-issues on mobile devices -->
<meta content="width=device-width; initial-scale=1.0; maximum-scale=1.0;
  user-scalable=0;" name="viewport">
</head>
<body>

<div id="partner"></div>
<script type="text/javascript">
function getParam() {
  var query = window.location.search.substring(1);
  var vars = query.split("&");
  for (var i = 0; i < vars.length; i++) {
    var pair = vars[i].split("=");
    if (pair[0] == 'domain') {
      return pair[1];
    }
  }
  return window.location.host;
}
;

document.write(
  '<script type="text/javascript" language="JavaScript"'
    + 'src="//sedoparking.com/frmpark/'
    + getParam() + '/'
    + 'sedopark'
    + '/park.js">'
    + '</script>'
);
</script>
</body>
</html>
```