

This page is mainly introduced the E-Z6NCT25 Air 9160/C chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of E-Z6NCT25 Air 9160/C, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Data Table for Grades Aviation and Aero Steel E-Z6NCT25 Air 9160/C

### E-Z6NCT25 Air 9160/C Standard Number:

ITEM	Standard Number	Descriptions
1	AIR 9160 C	wrought steels used in aeronautical constructions

### E-Z6NCT25 Air 9160/C Chemical composition (mass fraction) (wt.%)

Chemical	Min.(%)	Max.(%)
C		0.08
Si	0.40	1.00
Mn	1.00	2.00
P		0.030
S		0.015
Cr	13.50	16.00
Ni	24.00	27.00
Mo	1.00	1.50
V	0.10	0.50
Al		0.35
Ti	1.90	2.300
B	0.001	0.010

### E-Z6NCT25 Air 9160/C Physical Properties

Tensile strength	115-234	$\sigma_b$ /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_5 \geq$ (%)
$\psi$	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ /J
HBS	123-321	-

HRC	30	-
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### E-Z6NCT25 Air 9160/C Mechanical Properties

Tensile strength	231-231	$\sigma_b$ /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta_5 \geq$ (%)
$\psi$	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ /J
HBS	235-268	-
HRC	30	-

### E-Z6NCT25 Air 9160/C Heat Treatment Regime

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

### E-Z6NCT25 Air 9160/C 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	Φ8-1200mm*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 Aviation and Aero Steel the specifications follows:**