

# EN 1.4362 UNS S32304 EDX 2304<sup>®</sup>

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# 1.4362 / UNS S32304 / EDX 2304®

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The main applications are for details with special requirements for high corrosion resistance.

## S32304 IS CHARACTERIZED BY:

- Good resistance to stress corrosion cracking.
- Good resistance to pitting and crevice corrosion.
- High resistance to general corrosion.
- High mechanical strength.
- High resistance to erosion corrosion and corrosion fatigue.

## Heat Treatment

Solution annealing at 1020 – 1100°C followed by water quenching.

## Weldability

Very good.

## CHEMICAL COMPOSITIONS

Weight %	C	Si	Mn	S	P	Cr	Ni	Mo	N	Cu	B
Min.						22,00	3,50	0,10	0,05	0,10	
Max.	0,030	1,00	2,00	0,015	0,035	24,00	5,50	0,60	0,20	0,60	35ppm

**Product Standards:** EN 10088-2, EN 10088-4, EN 10028–7, ASTM A240

**Approvals:** NORSOK M650, Internal MDS D35 by Aker Solutions AS

## MECHANICAL PROPERTIES

	Yield Rp0.2, MPa	Tensile Rm, MPa	Elongation [%]	Hardness [HB]	Charpy-V -40°C [J]	Pre
PLATE CR (COIL)	$\geq 500$	$\geq 690$	$\geq 25$		$\geq 45$	$\geq 28$
PLATE HR (COIL)	$\geq 500$	$\geq 690$	$\geq 25$	$\leq 290$	$\geq 45$	$\geq 28$
PLATE	$\geq 420$	$\geq 630$	$\geq 25$	$\leq 290$	$\geq 45$	$\geq 28$
ANGLE BAR	$\geq 450$	$\geq 600$	$\geq 25$	$\leq 290$	$\geq 45$	$\geq 28$

## PLATE

Thickness	1,5	2	3	4	5	6	8	10	12	15	20	25	30
	35	40	50										

Our standard stock formats are 1500 x 3000 mm, 1500 x 6000 mm, 2000 x 1000 mm, 2000 x 4000 mm and 2000 x 6000 mm.

## COIL

1500 mm	1,5	2	3	4	5	6							
2000 mm	3	4	5	6									

## HOLLOW SECTION

50 x 50 x 4 mm
60 x 60 x 4 mm
80 x 80 x 5 mm
100 x 100 x 6 mm
120 x 120 x 6 mm
150 x 100 x 6 mm
150 x 150 x 6 mm
200 x 200 x 8 mm
250 x 250 x 8 mm

According to NORSOK MDS YD37

## HOT ROLLED ANGLE BAR

50 x 50 x 5 mm
60 x 60 x 6 mm
80 x 80 x 8 mm
100 x 100 x 10 mm

According to NORSOK MDS YD36