

# DT980

## Dual phase carbon steel belt



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DT980 is a high alloy duplex super corrosion resistant stainless steel belt. It has extremely high resistance to corrosion and high cracking property. It does not need painting or casting, which saves on maintenance. This belt is widely applied to pressure piping systems for treatment of seawater, chemicals and oil and gas. It is also widely used for pressure resistant vessels for biogas digesters, evaporators and road tankers. It can be further processed to perforated belt.

### Properties

- ◆ Steel type: Dual phase stainless steel
- ◆ Tensile strength: 980 Mpa
- ◆ Fatigue strength:  $\pm 380$  Mpa
- ◆ Hardness: 306 HV5

### Applications

- ◆ Chemicals
- ◆ Oil and gas
- ◆ Seawater

### Scope of supply

- ◆ Length - custom sizes available
- ◆ Width - 200 ~ 1500 mm
- ◆ Thickness - 0.8 / 1.0 / 1.2 mm

Maximum width of a single belt is 1500mm, but customised sizes via cutting are available.

### Chemical composition (nominal) %

C	Mn	P	S	Si	Cr	Ni	N	Mo	Fe
<0.03	<2.00	<0.03	<0.02	<1.00	21.00-23.00	4.50-6.50	0.10-0.20	3.00-3.50	-

### Static strength

Standard strength at room temperature (nominal values)

Parameters	Tensile strength		Yield strength		Elongation	Weld factor	Hardness
	Mpa	Ksi	Mpa	Ksi			
Parent material	980	142	790	115	20	*	306
Welding area	710	103	520	75	15	0.65	*

The data in this sheet are typical values but not guaranteed. The information is subject to changes in different batches of material.