

## Stainless Steel CX

### Wipro 3D – Stainless Steel CX

EOS Stainless Steel CX is a tooling grade steel characterized by having a good corrosion resistance combined with high strength and hardness.

### Characteristics

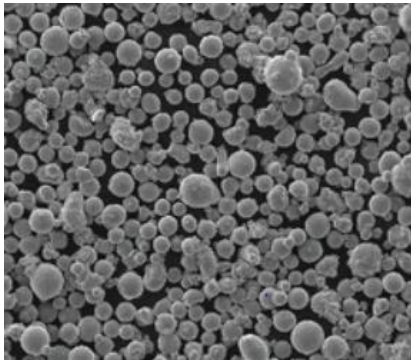
- Excellent corrosion resistance combined with high strength and hardness
- Easily machinable and offer excellent polishability
- Excellent wear and fatigue resistance

### Applications

- Plastic injection molding tools and tool parts for demanding applications.
- Rubber molding tools and tool parts.
- Molding tools and tool parts for corrosive plastics.
- Other industrial applications where high strength and hardness are required.

### Chemical Composition

Table 1: Chemical Composition (weight %)

Element	Limits	SEM Morphology of Powder
Cr	11.0-13.0	
Ni	8.4-10.0	
Mo	1.10-1.70	
Al	1.20-2.0	
Mn	0.40max	
Si	0.40max	
C	0.05max	
Fe	Balance	

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**Mechanical Properties**

Properties	HT condition
Tensile Strength (MPa)	>1650
Yield Strength (MPa)	>1550
Elongation (%)	>4
Hardness (HRC)	>45
Inter Granular Corrosion	Acceptable as per ASTM A262, Grade 316L in Table 1

There are various heat treatment methods for improving strength and/or elongation, hence if the user provides exact requirements, it can be discussed to achieve these properties.

**Disclaimer:** While every reasonable effort has been made to ensure that the information contained in this data sheet is correct, there is no guarantees or warranties (express or implied) concerning the accuracy or completeness of the information provided and expressly excludes all liabilities for any inaccuracies in this document or failure to achieve the stated levels.

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