

Data Sheet



# Steel 1.2379 / X153CrMo12 / SKD11, annealed

#### **Alternative Designations**

**Key Features** 

SKD11 (DIN) | D2 (AISI) | SKD11 (JIS)

Durable • High strength • Tough

**Chemical Composition** 

## Description

The steel x153crmo12 manufacturing material is an alloy that is made up of carbon, manganese, chromium and molybdenum. This combination of elements gives the alloy its high strength and toughness, making it ideal for use in applications where these properties are required. The alloy is also resistant to wear and tear, making it a good choice for use in industrial settings.

#### **Mechanical Properties**

Hardness	62
Module of elasticity	210 GPa

## **Physical Properties**

Density	7.7 g/cm <sup>3</sup>
Coefficient of thermal expansion	10.4 K-1 · 10-6
Thermal conductivity	20 W/m · K
Specific heat capacity	460 J/kg ∙ K

Al	-	Ν	-
Bi	-	Nb	-
С	1.45 – 1.6%	Ni	-
Cd	-	0	-
Со	-	Ρ	0.03%
Cr	11 – 13%	Pb	-
Cu	-	S	0.03%
Fe	-	Si	0.15 – 1.6%
Н	-	Sn	-
Mg	-	Ti	-
Mn	0.2 - 0.6%	V	0.7 – 1%
Мо	0.7 – 1%	Zn	-

### Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit <u>Materialdatacenter.com</u> for further information on this material.