

**NC11LV (1.2379)**
**stock sizes [mm]**

sheets and plates	from 1,5 mm to 200 mm thickness
round bars	from $\Phi$ 8 mm to $\Phi$ 553 mm diameter
flat bars and squares	from 30 mm to 500 mm width

**Description:**

ledeburitic chromium cold work tool steel; with very small hardening deformations, very wear resistant, less resistant to impacts than NC11 / 1.2080, with good ductility, good cutting properties, much harder than NC10 and NC11/1.2080 due to content of molybdenum and vanadium

**Application:**

high performance cutting tools, broaches, milling cutters, reamers, blanking dies, dies, punches, rolling rolls, tools for cutting paper, marble and plastics, cold stamping and extruding tools

**Chemical composition [%]**

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
1,5-1,7	0,15-0,45	0,15-0,4	max 0,03	max 0,03	11-13	max 0,35	0,7-1,0	max 0,2	0,6-0,8	-	max 0,35

**Equivalents**

PN	W. nr	EN	AISI	Russia (GOST)	Other
NC11LV	1.2379	X160CrMoV121	D2	H12MF	K110, Sverker21

**Processes**

welding	NO	
forging	YES	
rolling	YES	
nitriding	YES	
hardening	YES	temp. 1020 - 1050 [°C] oil/air
tempering	YES	temp. 220 - 550 [°C]

**Hardness**

after toughening	63 HRC
after softening	255 HB