

1.1663/CT120



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NAZWA GATUNKU: 1.1663/CT120

NAZWA: COLD WORK TOOL STEEL

NORM: PN-84/H-85020

## ANMELDUNG

Steel susceptible to the steel files, metal working tools (with a low machinability), steel tools for millstone and grindstone dressing, pull broaching rings for pipes, paper knives and engraving tools.

## CHEMISCHE ZUSAMMENSETZUNG:

| C          | Mn        | Si        | P         | S         | Cr       | Mo | W | V | Co | Cu      | Ni      |
|------------|-----------|-----------|-----------|-----------|----------|----|---|---|----|---------|---------|
| 1,15- 1,24 | 0,15 -0,3 | 0,15 -0,3 | MAX 0,025 | MAX 0,025 | MAX 0,15 | -  | - | - | -  | MAX 0,2 | MAX 0,2 |

## MECHANISCHE EIGENSCHAFTEN:

| Hardness after                     | Tempering °C | Symbol | Value    |
|------------------------------------|--------------|--------|----------|
| Soft annealing                     | -            | HB     | Max. 207 |
| Quenching with 760-780 °C in water | -            | HRC    | 63       |

## TECHNOLOGISCHE VERARBEITUNG:

| Technological treatment processes |                | Possible application  | Temperature, °C |
|-----------------------------------|----------------|-----------------------|-----------------|
| Hot forming                       | Forging        | +                     | 1000-800        |
|                                   | Rolling        |                       |                 |
| Treatment                         | Heat treatment | Quenching             | 760-780         |
|                                   |                | Tempering             | 180-300         |
|                                   | Annealing      |                       | 600-700         |
|                                   | Soft annealing | Above A <sub>c1</sub> | 750-780         |
|                                   |                | Below A <sub>c1</sub> | 680-710         |
| Thermochemical treatment          | Nitriding      | -                     | -               |
|                                   | Other          | -                     | -               |