

全球钢号百科!

Global Steel Grade Encyclopedia



涵盖的行业或国家与地区类别



















日本汽车标准组织

EN















CENA-G and CENA-V, both has improve good rust resistivity.

CENA-G: General grade CENA-V: Valuable grade

Selectable two grade materials, differ in mirror polishability.

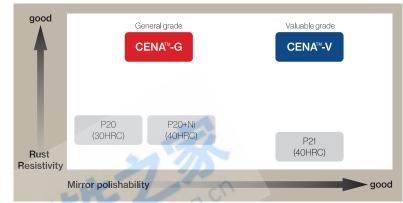
CENA-G and CENA-V, both has improved rust resistivity compared to conventional pre-hardened P20 or P21

Expected effects:

- -Easy cavity maintenance.
- -Fewer rust-preventive agent.
- -Prevent water-cooling hole clogging.

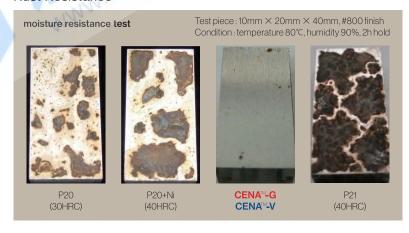
Rust Resistivity and Mirror Polishability

*our evaluation



*Comparison materials are equivalent to below. P20 (30HRC) : HI-PM™ 7, P20+Ni (40HRC) : HI-PM™ MAGIC, P21 (40HRC) : HI-PM™ PRO.

Rust Resistance



Mirror Polishability Interference figure comparison of mirror polished surface

	P20 (30HRC)	P20+Ni (40HRC)	CENA™-G	CENA [™] -V
6µm diamond Polishing (#3000)	2mml	2mm	2mm	2mm
3µm diamond Polishing (#8000)	2mm	2mm	2mm	2mm

CENA-G is suitable for general surface polishing. CENA-V is suitable for high grade surface polishing.

Its characteristics are easily to glossy finish after polishing and prevent surface waviness come out.

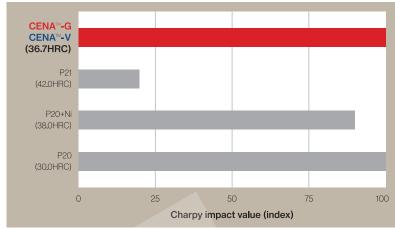
- <Attention>
- a) Polishing is our evaluation.
- b) More than 5000 mirror finished surface strongly depends on a person's polishing skill.
- c) Poor polishing skill may decrease mirror surface quality.

CENA-G and CENA-V, both has high impact toughness and its characteristics hard to crack,

Expect effects:

-Reduce breakage of thin ribs during machining.

Toughness



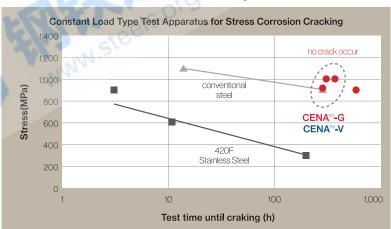
*Comparison are equivalent to our products below. P20 (30.0HRC) : HI-PM™ 7, P20+Ni (38.0HRC) : HI-PM™ MAGIC, P21 (42.0HRC) : HI-PM™ PRO.

CENA-G and CENA-V, both has improved stress corrosion cracking resistance compared to 420F improvement steel.

Expected effect:
-Prevent water-cooling hole clogging.

[Testing Condition] Test piece 3.5% salt water

Resistance to Stress Corrosion Cracking



*Comparison are equivalent to our products below. 420F: HI-PM™ 38 (49HRC): conventional steel: CENA™1 (40HRC).

CENA-G and CENA-V, both has high toughness, improves crack resistance from welding build-up.

These mold steel can be utilized in a variety of applications, including home appliances, auto-motive parts and bathroom fixtures.

Characteristics Comparison

	Hardness (HRC)	Mirror polishability	Rust resistiance	Toughness	Weldability
CENA™-G	35-41	В	А	Α	А
CENA™-V	35-41	Α	А	Α	А
HI-PM™7	29-33	С	D	А	А
HI-PM™MAGIC	37-41	В	D	В	А
HI-PM™PRO	37-41	А	D	С	В

Ranking: A---Best, B---Ordinary, D---Poor (Remark) Please refer above as general concept