



钢铁之家
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全球钢号百科!

Global Steel Grade Encyclopedia



涵盖的行业或国家与地区类别



国际材料与试验协会

GJB

国家军用标准



动力机械工程师协会

EU

前欧洲标准化

AISI

美国钢铁学会



德国工业标准

AMS

航空航天材料规范



国际标准

JASO

日本汽车标准组织

EN

欧洲标准

JB

中国机械行业标准

UNS

统一编号系统

UNI

意大利标准



美国机械工程师协会

SS

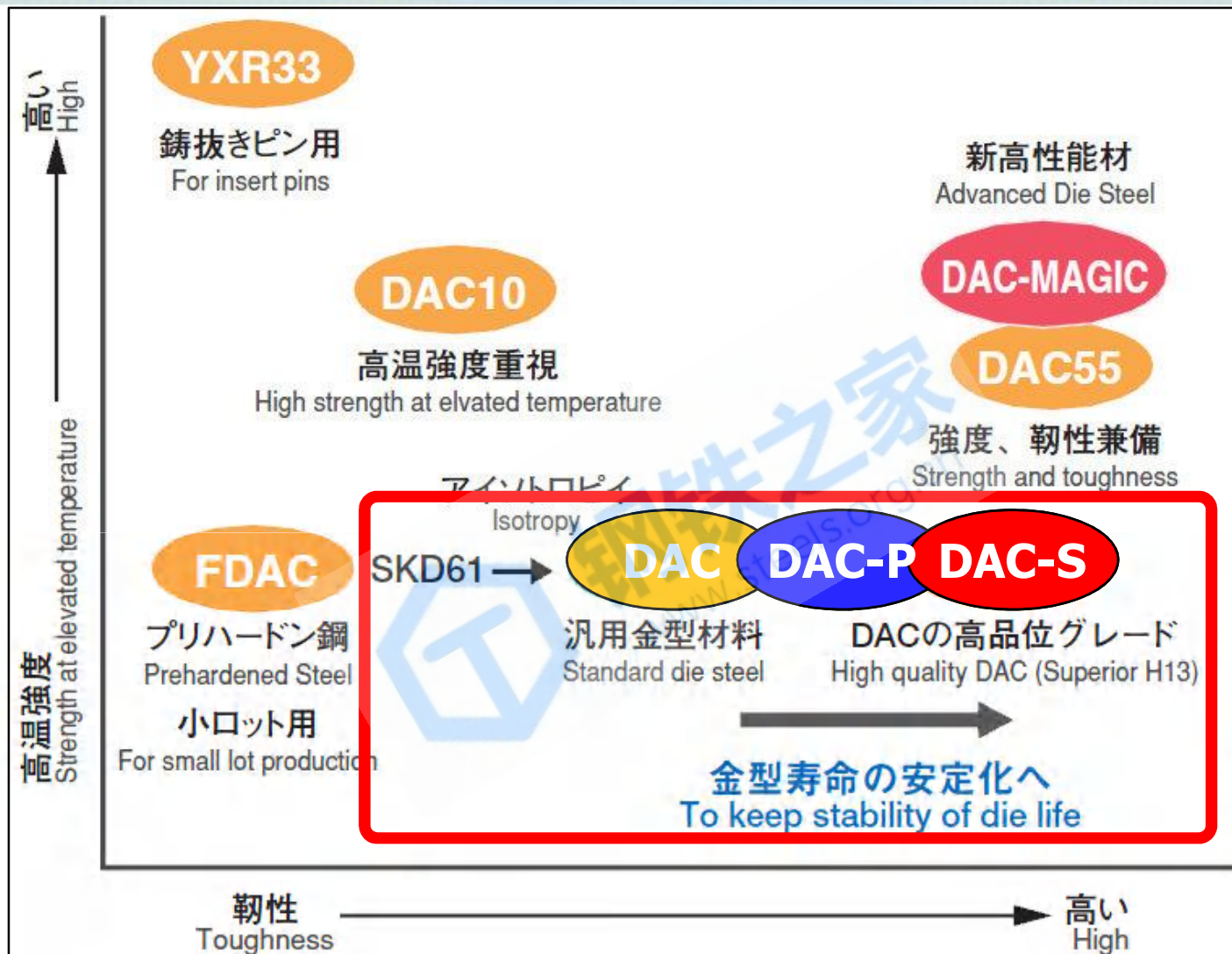
瑞典标准



国家标准



日本工业标准



(1) DAC-P <DAC-Premium>

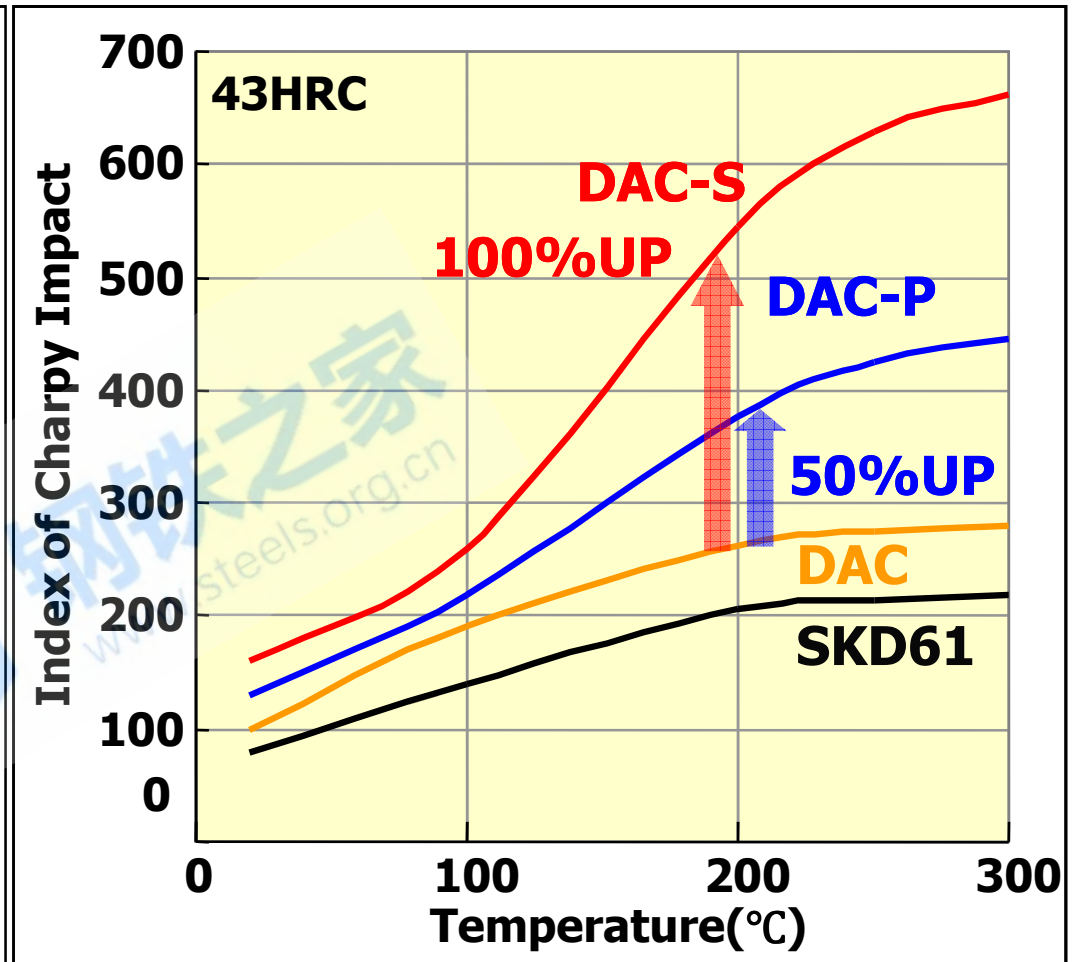
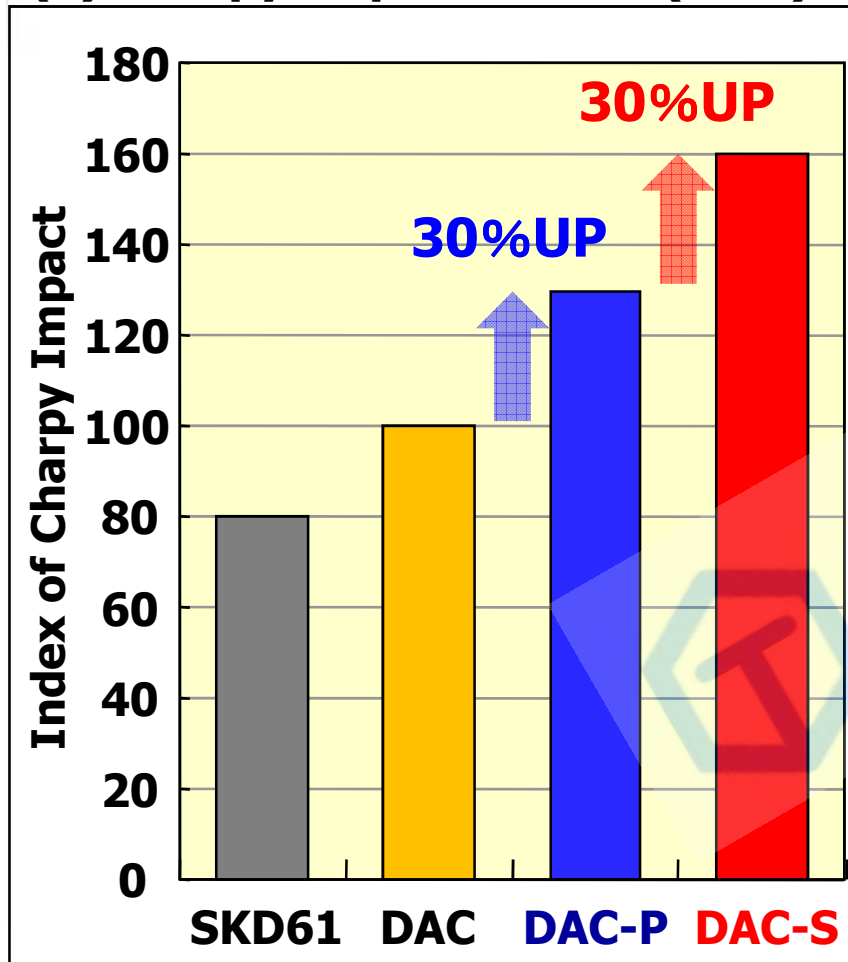
- Charpy impact value is 30% higher than that of DAC.
- It is conformable to Premium H13.

(2) DAC-S <DAC-Superior>

- Charpy impact value is 60% higher than that of DAC.
- It is conformable to Superior H13.

(1) Charpy Impact Values (@RT)

(2) Charpy Impact Value (@High temp.)

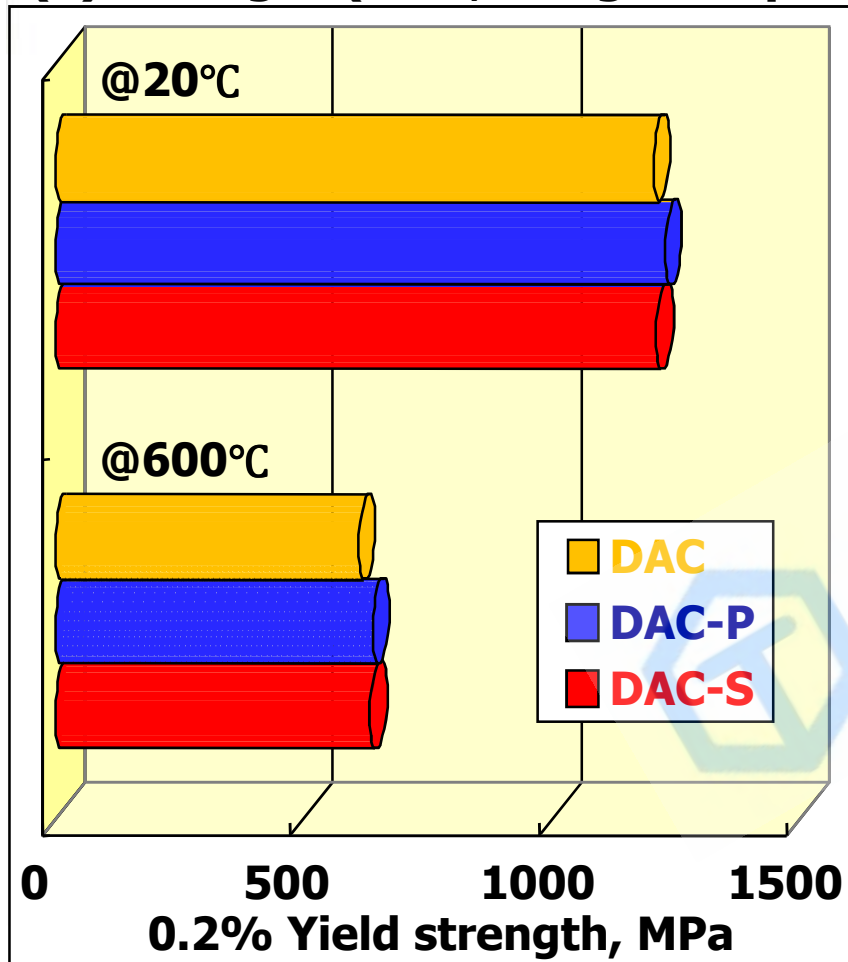


Die Surface temperature: 200~300°C

⇒ High temp. toughness: Important properties affecting cracking

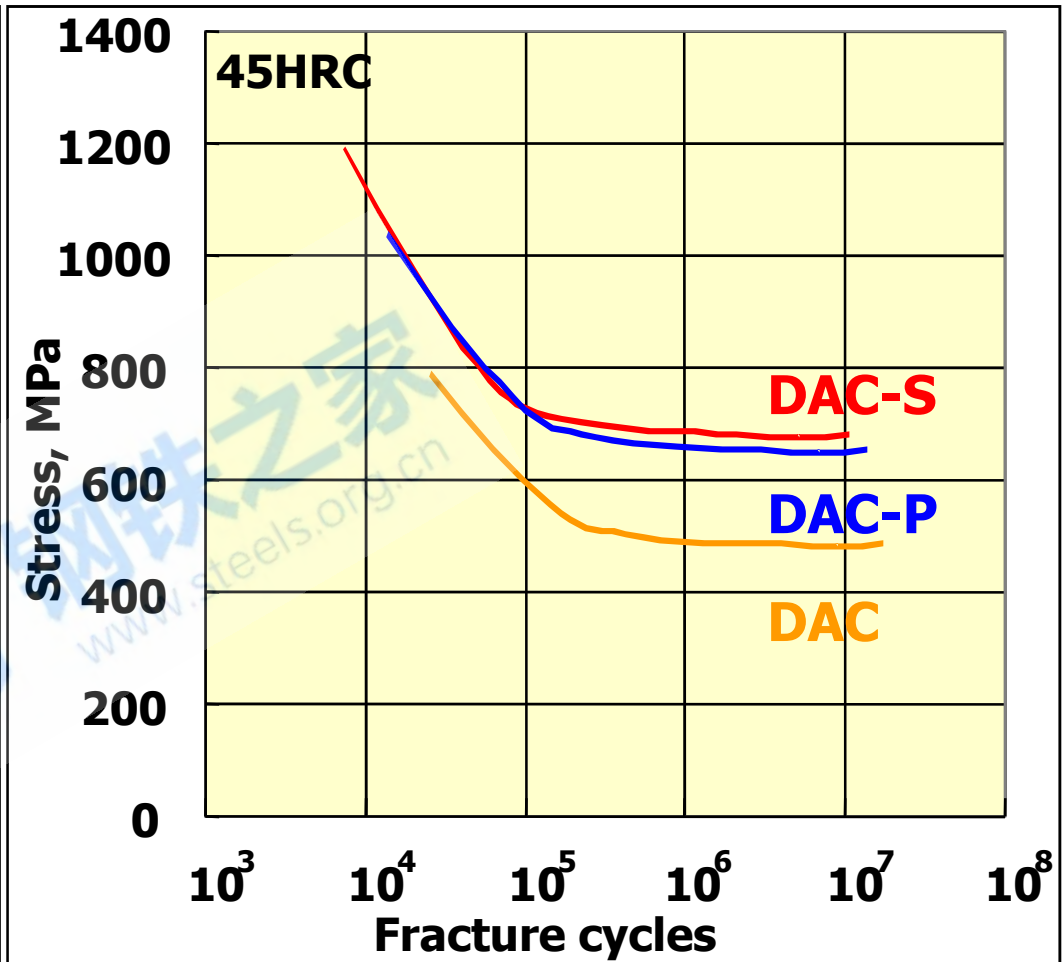
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Hitachi Metals

(3) Strength (@RT, @High temp.)



Heat crack resistance
⇒ High temperature strength

(4) Fatigue Strength



Fatigue Strength is improved
by material cleanness

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Properties of **DAC-P**, **DAC-S** (comparison to DAC)

| Grades | Chemical Composition | Toughness | | Strength | | Machinability |
|--------------|----------------------|-----------|--------|----------|-------|---------------|
| | | 20°C | 200°C | 20°C | 600°C | |
| DAC-P | same as DAC | 30%UP | 50%UP | Equal | Equal | Equal |
| DAC-S | same as DAC | 60%UP | 100%UP | Equal | Equal | Equal |

*DAC is equivalent to JIS SKD61, 0.4C-5.2Cr-1.3Mo-V

DAC-P ⇒ **Premium H13**
DAC-S ⇒ **Superior H13**
 ⇒ **Acceptable to NADCA High Quality Level**

*NADCA: North American Die Cast Association

DAC-P, DAC-S
 ⇒ **contribute to life stabilization**

Specialty Steel Company
 Hitachi Metals