

STARPLATE 4880^(P)

Advanced technology in wear

STARPLATE[®] 4880^(P) is a wear resistant steel offering up to 40-50% extra in service life compared with a 400 HB water quenched steel.

STARPLATE[®] 4880^(P) combines several modern metallurgical concepts which, depending on thickness, use different combinations of an enriched chemical analysis (Cr, Mo, Ti...) and controlled quenching rate.

Starplate[®] 4880^(P) is designed to provide the optimum combination of wear resistance controlled hardness and ease of processing. Rather than using just a high hardness level, it achieves this aim by using proven and controlled metallurgical mechanisms, which are more complex but more efficient than the simple effect of hardness alone.

- Work-hardening and Cr Mo micro-carbides, the basic STARPLATE[®] concept,
- TRIP⁽¹⁾ effect originally developed with STARPLATE[®] 8800,
- Reinforcement of the structure with Titanium carbides.

The limited as delivered hardness of Starplate[®] 4880^(P) makes processing operations like cutting, machining and forming no more difficult than processing 400HB water quenched steel.

Starplate[®] 4880^(P) is ideal for applications in mines and quarries, cement and the Steelmaking industries, public works and agricultural machinery. It is suitable for all types of abrasion, sliding or impact, dry or wet media including high temperature abrasion up to 340-360°C.

⁽¹⁾ TRansformation Induced by Plasticity

STANDARD

STARPLATE 4880 (P) -ASTM36

CHEMICAL ANALYSIS

Guaranteed values (Weight %)

C	S	P	Mn	Ni	Cr	Mo	Ti
≤ 0.18	0,007	0,018	1,55	0,21	1.90	0,39	0,21

MECHANICAL PROPERTIES

Typical values (as supplied)

Hardness HB	YS MPa	UTS MPa	E %	KCVL-20°C J/Cm ²	Elasticity modulus GPa
360-375	900	1200	12	45	205

Guaranteed values (as supplied)

Hardness : 330/410 HB

[®] Trademark registered by DUALRANK (M) Sdn. Bhd.

^(P) Grade patented by DUALRANK (M) Sdn. Bhd.

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Star plate 4880 ကိုအသုံးပြုသောနေရာများ

Star plate 4880 သည် ပွတ်စားမှုဒဏ်ကို 40 မှ 50 % ထိပိုမိုခံနိုင်စေပြီး မာကြောမှု 400 HB ရှိသည်။

Star plate 4880 ကို မိုင်းတွင်း၊ သတ္တုတွင်း၊ ဘိလပ်မြေစက်ရုံ၊ steel စက်ရုံ၊ ဆောက်လုပ်ရေး လုပ်ငန်း၊ လယ်ယာစိုက်ပျိုးရေးသုံး စက်ပစ္စည်းများ စသည်တို့တွင် အသုံးပြုနိုင်သည်။ 4880 သည် ပွတ်စားခံရသောနေရာ၊ ရိုက်ခတ်ခံရသောနေရာ၊ ခြောက်သွေ့ စိုစွတ်သော အခြေအနေ နှင့် အပူချိန် 340-360° C ရှိသောအရာများကို ပြုလုပ်ရာတွင် ပိုမို သင့်တော်သည်။