

STARPLATE[®] 8800^(P)

A high performance wear resistant steel

STARPLATE 8800 is a high performance wear resistant steel, exhibiting a wear resistance of 50% higher than that of conventional 500 HB water quenched steel.

STARPLATE 8800 is using an innovative concept, based on a unique combination of chemical analysis and heat treatment procedures (oil quenching). This confers to the steel an improved wear resistant by the contribution of :

- a very fine distribution of chromium and molybdenum microcarbides reinforcing the microstructure with the same principal as composite materials.
- a very efficient work hardening capability in service, coming from a metallurgic effect called TRIP effect (Transformation Induced by Plasticity).

In addition to its high wear resistance, STARPLATE 8800 still maintains a very good aptitude to processing, far much better than that of 500 HB water quenched. STARPLATE 8800 offers consequently the best possible optimization of an exceptional wear resistance and a very acceptable workability.

Application markets of STARPLATE 8800 are : mines, quarries, cement industries, steel making, public works...

STANDARD

STARPLATE 8800

CHEMICAL ANALYSIS

Guaranted values (Weight %)

C	Mn	Ni	Cr	Mo	S
< 0.27	1.70	0.42	1.55	0.22	0.003

MECHANICAL PROPERTIES

Indicative values (As delivered)

Hardness HB	YS 0.2 MPa (KSI)	UTS MPa (KSI)	EI. %	KCVL-20°C (-4°F) J/Cm ²	E GPa
460-480	1250 (181)	1630 (236)	12	55	205

Guaranted values (As delivered)

Hardness : 425/520 HB

Toughness : KCVL -20°C (-4°F) ≥ 40 J/cm²

* Trademark registered by DUALRANK (M) Sdn. Bhd.

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

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Starplate 8800 ကိုအသုံးပြုပုံ

Starplate 8800 သည်မြင့်မားသော ပွတ်စားမှုကို ခံနိုင်သည်။ Starplate 8800 သည် 500 HB ရှိသော water quenched steel ထက် 50% ပို၍ ပွတ်စား ခံနိုင်သည်။

Starplate 8800 ကို မိုင်းတွင်း၊ quarries၊ ဘီလပ်မြေစက်ရုံ၊ steel ပြုလုပ်ခြင်း၊ အများပြည်သူ လုပ်ငန်းများ တို့တွင် အသုံးပြုနိုင်သည်။