

GOREX 500 Product Dossier

GOREX 500 produkt dossier

500 FINISHED WEAR-PART CLASS

Do not select by hardness class alone. Verify impact, geometry, thermal processing, repair strategy and actual order data.

Source-material framework: NM500E

REVISION 0.9

Selection posture and limitations

Urvalsposition och begränsningar

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Detta dokument är förkommersiell kontrollerad information, inte kontrakt, ordererkännande, kontrollintyg, provresultat eller tekniskt godkännande. Slutliga krav uppstår endast genom signerad offert, order, tillämplig specifikation och leveransspecifika dokument.

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This document is pre-commercial controlled information, not a contract, order acknowledgement, inspection document, test result or engineering approval. Final requirements arise only through the signed quotation, order, applicable specification and shipment-specific documents.

Source basis / Källgrund: live controlled GOREX registries; GB/T 24186-2022 NM source-material framework; pre-commercial GOREX finished-part qualification and traceability requirements.

Contact / Kontakt: craig@craig gore.net

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Lanseringsprogrammets högsta nominella hårdhet, för användning där slittrycket motiverar stramare kontroll av konstruktion och bearbetning.

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The launch programme's highest nominal hardness, for use where wear pressure justifies tighter fabrication and design control.

GOREX 500 identifies the released finished component. NM500E is the source-material framework where contracted; the actual mill, material grade, dimensions, tests and inspection document are confirmed for the order.

Hardness requirements

Hårdhetskrav

SURFACE HARDNESS BANDS FROM THE LIVE GRADE REGISTRY

THICKNESS / TJOCKLEK	SURFACE HARDNESS / YTHÅRDHET	STATE / STATUS
<= 70 mm	470-540 HBW	Specified / Specificerat
> 70-100 mm	450-540 HBW	Specified / Specificerat

CENTRE HARDNESS - OPTIONAL IN THE BASE FRAMEWORK BUT MANDATORY IN THE GOREX QUALIFICATION OVERLAY

LOCATION / LÄGE	RANGE / INTERVALL	FRAMEWORK
Centre / Centrum	420-540 HBW	Mandatory GOREX finished-part qualification overlay

Source-material framework: NM500E. Specification thickness scope extends to 100 mm. Actual dimensions and availability are confirmed in quotation.

Impact, CEV and conditional tensile

Slag, CEV och villkorat dragprov

E-GRADE IMPACT FRAMEWORK

THICKNESS	KV2 MINIMUM	TEMPERATURE	STATE
<= 60 mm	21 J	-40 C	Specified / Specificerat
> 60-100 mm	18 J	-40 C	Specified / Specificerat

CEV FRAMEWORK

THICKNESS	CEV MAXIMUM	STATE
<= 50 mm	0.64% max	Specified / Specificerat
> 50-100 mm	0.77% max	Specified / Specificerat

CONDITIONAL TENSILE VALUES

PROPERTY	VALUE	STATE / QUALIFIER
Rm	1350 MPa	Indicative / Vägledande - only when agreed in the order
A50	7%	Indicative / Vägledande - only when agreed in the order

The base framework has no yield-strength minimum. No yield value may be inferred.

Delivery, processing and order confirmation

Leverans, bearbetning och orderbekräftelse

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- Leveranstillstånd Q eller Q+T; ingen svetsreparation av plåt.
- Originalverkets EN 10204 3.1-kontrollintyg för varje frisläppt leverans.
- Använd verklig kemi från kontrollintyget för CEV/CET/Pcm-bedömning och WPS.
- Bekräfta dimension, tolerans, slagprovning, UT, bearbetning, ursprung, verk och leveranstid i ordern.
- Spåra heat, plåt, prov, kontrollintyg och leverans.

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- Delivery condition Q or Q+T; no weld repair on plate.
- Original mill EN 10204 3.1 inspection document for every released shipment.
- Use actual inspection-document chemistry for CEV/CET/Pcm assessment and WPS.
- Confirm dimensions, tolerances, impact testing, UT, processing, origin, mill and lead time in the order.
- Trace heat, plate, sample, inspection document and delivery.

Source basis / Källgrund: GB/T 24186-2022 NM500E framework plus GOREX finished-part qualification and traceability requirements. **Contact:** craig@craiggore.net