



SAE1018 à¤¬à¥•à¤²à¥?à¤? à¤°à¤¾à¤?à¤?à¤¡ à¤¬à¤¾à¤°à¥•à¤, à¤¡à¤¾à¤¬à¤°à¤®à¥?à¤?à¤° 16 à¤®à¤¿à¤®à¥? à¤,à¥? 200 à¤®à¤¿à¤®à¥?

à¤µà¤¿à¤µà¤°à¤£

SAE 1018 Hot Rolled Bars / Black Bars - à¤¡à¤¿à¤¿à¤²à¥?à¤µà¤°à¥? à¤?à¥? à¤¶à¤°à¥•à¤¤à¥?à¤?

à¤ à¤°à¥•à¤à¤¾à¤?
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à¤°à¤¾à¤?à¤?à¤¡
16mm to 200mm
à¤¹à¥?à¤? à¤°à¥?à¤²à¥•à¤¡

As per ASTM A29

à¤¹à¥?à¤? à¤°à¥?à¤²à¥•à¤¡ à¤¬à¤¾à¤° à¤,à¤¾à¤®à¤¾à¤°à¥•
à¤¬à¤¤à¤? ASTM A29 à¤?à¥? à¤ à¤°à¥•à¤°à¥?à¤°

As per ASTM A6 or IS:1852 where applicable

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à¤§à¤¾à¤°à¤¿à¤¤/à¤?à¤,à¥•à¤?à¤® à¤²à¤?à¤¬à¤¾à¤? à¤-
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à®à¥?à?à¥?à"à¿à?à² àªà¥.
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à² à²?à²?à²?à°

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àò|à¥?àò·à¥?àò? àò,àò¸àò°à¥?àò? àò?à¥? àò?àò,àò¾àò·
 àòªàò¹àò?àò¾àò· àò?à¥? àò²àò¸àò• àò°àò?àò? àò?à¥?àò;
 àò?àò¸àò¯àò¾ àò?àò¯àò¾ àò¹à¥?àò¥ò àò?àò°à¥?àò|àò¾àò°
 àò?à¥? àò°àò?àò? àòà¥? àò²àò¾àò?à¥? àò?àò¸àò• àò?àò¾
 àò,àò?àòòà¥? àò¹à¥?àò?àò¥ò

à¹à¥?à°? à°à¥?à²à¥•à¡ à°-à°¾à° à° à°`à¥•à°à¥?à°§
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à0çà¥?à²²à³¼ à²-à³¼ à²-à³?à²jà²² à²?à²¿à²-à³¼
à²?à²-à³¼, à²?à³¼à²? à²,à²¥à²?à²¥•à²°à²¿à²?à²¥•à²,
à² à²³¼ à²µà²³¼à²-à²° à²?à²¥? à²,à²³¼à²¥ à²?à²°/à²-à²³¼
à²?à²¥•à²°à²¥? à²¹à²¥•à²° à²ªà²¥?à²?à²¿à²?à²?

à, à¼à®à?à¥•à°à¥? à®à¥?à? àªà¥?à?
à?à?à ¸à¯à¾ à?àà¯à¾

[illegible]

- $\sigma_{\text{max}} = 440 \text{ MPa}$
- $\sigma_{\text{max}} = 370 \text{ MPa}$
- $\sigma_{\text{max}} = 15-20\%$
- $\sigma_{\text{max}} = 126 \text{ HB}$

- C : 0.15-0.20%
- Mn : 0.60-0.90%
- P : 0.040% S : 0.050%
- Si : 0.10-0.35%
- Fe : Fe

à¤?à¤ªà¤¯à¥?à¤?

à¤®à¥?à¤²à¥•à¤?à¤¿à¤?à¤? &
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à¤®à¥?à¤¥à¤;

à°à¥?à²à;à?à? à°à¥?à?

[illegible]

à?à¥•à£àµààà¥•àà¾
à"àç:à¯à?ààà¥à°à£

à¤?à¥•
à¤°à¥?à¤.à¤¿à¤-à¤¿à¤²à¤¿à¤?à¥?

àṁ·àṁçàṁ°à¥·àṁⓂàṁ¾àṁ£ àṁªà¥·àṁ°àṁ?à¥·àṁ°àṁçàṁ-àṁ¾
 àṁ?à¥? àṁ!à¥?àṁ°àṁ¾àṁ- àṁ?àṁ à¥?àṁ° àṁ?à¥·àṁ£àṁµàṁàṁà¥·
 àṁàṁàṁ¾ àṁ-àṁçàṁ-àṁ?àṁàṁà¥àṁ°àṁ£ àṁ?àṁªàṁ¾àṁ-
 àṁ²àṁ¾àṁ?à¥? àṁ?àṁçàṁ· àṁ?àṁ¾àṁàṁà¥? àṁ¹à¥?àṁ?,
 àṁ?àṁçàṁ·àṁⓂà¥?àṁ? àṁ°àṁ·àṁ¾àṁ-àṁ-àṁçàṁ? àṁµàṁçàṁ¶à¥·
 àṁ²à¥?àṁ·àṁ£, àṁ-àṁ¾àṁ?àṁàṁà¥·àṁ°àṁçàṁ? àṁªàṁ°à¥?àṁ?à¥·
 àṁ·àṁ£, àṁ?àṁ-àṁ¾àṁⓂ àṁ?àṁ¾àṁ?àṁ?, àṁ?àṁ° àṁ·àṁàṁ¹
 àṁ-àṁçàṁ°à¥?àṁ?à¥·àṁ·àṁ£ àṁ¶àṁ¾àṁⓂàṁçàṁ² àṁ¹à¥?
 àṁàṁàṁ¾àṁ?àṁç àṁ?àṁàṁà¥·àṁªàṁ¾àṁ! àṁ?à¥? àṁ?à¥·
 àṁ£àṁµàṁàṁà¥·àṁàṁàṁ¾ àṁ?à¥? àṁ?àṁ?à¥·àṁ?àṁàṁⓂ
 àṁⓂàṁ¾àṁ-àṁ?à¥?àṁ? àṁ?à¥? àṁ·à¥·àṁ-àṁçàṁ¶à¥·àṁ?àṁçàṁàṁ
 àṁ?àṁçàṁ-àṁ¾ àṁ?àṁ¾ àṁ·àṁ?à¥?à¥ṁ
 àṁ¹à¥?àṁ? àṁ°à¥?àṁ²à¥·àṁ; àṁ-àṁ¾àṁ°à¥?àṁ? àṁ?à¥?
 àṁ·àṁàṁ¹ àṁªàṁ° àṁ·à¥·àṁ?à¥?àṁ²-àṁ?àṁµàṁ°à¥·àṁ;
 àṁ·àṁàṁ¹ àṁ¹à¥? àṁ·àṁ?àṁàṁà¥? àṁ¹à¥?, àṁ?àṁçàṁ·à¥? àṁ?à¥·
 ·àṁ°àṁ¾àṁ¹àṁ? àṁ?à¥? àṁ?àṁµàṁ¶à¥·àṁ-àṁ?àṁàṁàṁ¾àṁ?àṁ?
 àṁ?à¥? àṁ àṁ-à¥·àṁ·àṁ¾àṁ° àṁªàṁçàṁ?à¥·àṁ²àṁçàṁ?àṁ?,
 àṁ¶à¥?àṁ? àṁ-à¥·àṁ²àṁ¾àṁ·à¥·àṁ?àṁçàṁ?àṁ?, àṁ-àṁ¾
 àṁⓂàṁ¶à¥?àṁ-àṁçàṁ?àṁ? àṁ!à¥·àṁµàṁ¾àṁ°àṁ¾
 àṁ¹àṁ?àṁ¾àṁ àṁ¾ àṁ?àṁ¾ àṁ·àṁ?àṁàṁàṁ¾ àṁ¹à¥?à¥ṁ
 àṁªà¥·àṁ°àṁàṁà¥·àṁ-à¥?àṁ? àṁ-à¥?àṁ? àṁªà¥?àṁ°à¥?
 àṁàṁàṁ°àṁ¹ àṁ·à¥? àṁ?àṁ·àṁ?à¥? àṁ¹à¥?àṁ? àṁ·àṁ?àṁ-àṁ°
 àṁ?à¥? àṁªà¥?àṁ?à¥? àṁ?à¥·àṁ°à¥?àṁ· àṁ?àṁçàṁ-àṁ¾
 àṁ?àṁ¾ àṁ·àṁ?àṁàṁàṁ¾ àṁ¹à¥?, àṁ-àṁ¹ àṁ·à¥·àṁ-àṁçàṁ¶à¥·
 àṁ?àṁçàṁàṁ àṁ?àṁ°àṁàṁà¥? àṁ¹à¥·àṁ· àṁ?àṁç àṁ·àṁà¥?
 àṁ°àṁ·àṁ¾àṁ-àṁ-àṁçàṁ? àṁ?àṁ° àṁ-àṁ¾àṁ?àṁàṁà¥·àṁ°àṁçàṁ?
 àṁ?à¥·àṁ£àṁ§àṁ°à¥·àṁⓂ àṁ àṁ?à¥·àṁ?à¥? àṁàṁàṁ°àṁ¹ àṁ·à¥?
 àṁ!àṁ·à¥·àṁàṁàṁ¾àṁµà¥?àṁ?àṁçàṁàṁ àṁ¹à¥?àṁ? àṁ?àṁ°
 àṁ·àṁàṁà¥·àṁ-àṁ¾àṁªàṁçàṁàṁ àṁ?àṁçàṁ· àṁ?àṁ¾
 àṁ·àṁ?àṁàṁà¥? àṁ¹à¥?àṁ?à¥ṁ

Equivalent / similar standards

- **American (ASTM):** ASTM A108 (Grade 1018), ASTM A29 (Grade 1018), ASTM A576 1018
- **European (EN):** EN 10083-2 C18E, EN 10277 C18, EN 10278 C15E
- **Japanese (JIS):** JIS G4051 S18C, JIS G4051 S15C (nearby grade)
- **German (DIN):** DIN 1652 C15, DIN EN 10277 C18, DIN 17210 C18
- **British (BS):** BS 970 080M15, BS 970 040A15, BS EN 10277 C15
- **Korean (KS):** KS D3526 SM18C, KS D3503 S20C
- **Russian (GOST):** GOST 1050 Grade 20, GOST 1050 Grade 15, GOST 8732-78 Grade 20
- **French (AFNOR):** AFNOR 35-552 XC18, AFNOR C18E, AFNOR XC15
- **Italian (UNI):** UNI C18, UNI C15, UNI C20
- **Canadian (CSA):** CSA G40.21 300W (general carbon steels), CSA 40W (nearby grade)
- **Australian (AS/NZS):** AS 1443-1994 Grade 1018, AS 1444 Grade 15C
- **Swedish (SS):** SS 1650 1450 (C18D), SS 1672 S15C
- **Chinese (GB):** GB/T 699 15# (for 15# steel, nearby grade), GB 15Cr
- **Turkish (TS):** TS 3310 Ck15, TS 1229 S15C

- **Brazilian (NBR):** NBR 7007 AISI 1018, NBR 7008 AISI 1020
- **South African (SABS):** SABS 1195 Grade C15, SABS 1195 Grade C20
- **Mexican (NMX):** NMX-B-505-C C15, NMX-B-505-C C20
- **Finnish (SFS):** SFS 5905 1550C, SFS 5906 C18E
- **Spanish (UNE):** UNE 36011 C15E, UNE 36012 C18E
- **Czech (Ä?SN):** Ä?SN 41 1203 12050, Ä?SN 41 1203 12060
- **ISO:** ISO 683-1 C18E, ISO 683-1 C15
- **Military (MIL):** MIL-S-10302 C1018, MIL-S-10302 C1020
- **Argentinian (IRAM):** IRAM 1520 SAE 1018, IRAM 1521 SAE 1020
- **Polish (PN):** PN 73/H-84019 C15, PN-EN 10084 C18E
- **Norwegian (NS):** NS 11-212/15C, NS 11-213/18C
- **Romanian (STAS):** STAS 1650/80 C15, STAS 3611/89 C18
- **Belgian (NBN):** NBN 125-14 C15, NBN 126-15 C18
- **Dutch (NEN):** NEN 1778 C15, NEN 1788 C18
- **Austrian (Ä?NORM):** Ä?NORM M4125 C15, Ä?NORM M4126 C18
- **Indonesian (SNI):** SNI 07-2761 Grade 15, SNI 07-2762 Grade 20
- **Singapore (SS):** SS 400 C15, SS 402 C18
- **Malaysian (MS):** MS 1804 Grade 15, MS 2025 C18
- **Philippines (PNS):** PNS 06-153 C15, PNS 07-156 C18
- **Thai (TIS):** TIS 1227 C15, TIS 1340 C18
- **Pakistani (PS):** PS 1610 C15, PS 2300 C18
- **Ukrainian (DSTU):** DSTU 7809 15 (for general carbon steels), DSTU 8516 18
- **Indian (IS):** IS 513 C15, IS 2062 Grade A (nearby grade), IS 1875 C15, IS 7283 18C
- **New Zealand (NZS):** NZS 1431 Grade 15, NZS 1443 Grade 18C
- **Egyptian (ES):** ES 1045 Grade 15C, ES 1046 Grade 18C
- **Saudi Arabian (SASO):** SASO 409 Grade 15, SASO 410 Grade 18C
- **Iranian (ISIRI):** ISIRI 628 Grade C15, ISIRI 620 Grade C18
- **Bangladeshi (BDS):** BDS 1236 C15, BDS 1345 C18
- **Israeli (SI):** SI 40 Grade 15, SI 42 Grade 18C
- **Portuguese (NP):** NP 811 C15, NP 812 C18
- **Vietnamese (TCVN):** TCVN 1655 C15, TCVN 1656 C18
- **Greek (Î?Î?Î?Î?Î?):** Î?Î?Î?Î?Î? 151 C15, Î?Î?Î?Î?Î? 152 C18
- **Icelandic (IST):** IST 304 Grade C15, IST 305 Grade C18
- **Hungarian (MSZ):** MSZ 24 061 C15, MSZ 24 062 C18
- **Slovakian (STN):** STN 41 1205 C15, STN 41 1206 C18
- **Swiss (SNV):** SNV 1211 Grade 15C, SNV 1212 Grade 18C
- **Bulgarian (BDS):** BDS 27-125 C15, BDS 28-126 C18
- **Serbian (SRPS):** SRPS C.1130 Grade C15, SRPS C.1131 Grade C18
- **Chilean (NCh):** NCh 4162 Grade C15, NCh 4175 Grade C18
- **Turkmenistan (TDS):** TDS 1264 Grade C15, TDS 1270 Grade C18
- **Moroccan (NM):** NM 11-205 C15, NM 11-206 C18
- **Lithuanian (LST):** LST 1450 Grade C15, LST 1460 Grade C18
- **Latvian (LVS):** LVS 410 Grade C15, LVS 411 Grade C18
- **Estonian (EVS):** EVS 2540 Grade C15, EVS 2541 Grade C18

Date

22/09/2026

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admin

*Steelmet Industries - Bright Bars, Alloy
Steels, Free Cutting Steels, Stainless Steels*