PRODUCTS, SIZES & SERVICES



INQUIRIES AND ORDERS

When inquiring about or ordering Gerdau bars, please have the following information in as much detail as possible. Sufficient information will better enable Gerdau to meet your requirements to your complete satisfaction.

- Steel Grade Specification
- · Quality Level
- · Diameter and Length
- · Size Tolerances (other than standard)
- · Packaging Requirements
- Delivery Requirements
- . End Use or Application
- End User
- Your Production Process
- Any other information useful in supplying the most suitable product

AVAILABLE GRADES

- Bearing Steels to ASTM A295, A485, A534 and A866 (e.g. 1053, 1070, 4118, 4320, 4820, 5120, 8620)
- Aircraft Quality Steel to AMS 2301 and AMS 2304
- All ASTM A-29 and SAE Carbon, Resulfurized and Rephosphorized Steels (1008 to 1095, 11xx, 12xx, 15xx)
- All ASTM A-29 and SAE Alloy Steels (13xx, 40xx, 41xx, 43xx, 44x, 46xx, 47xx, 48xx, 50xx, 51xx, 61xx, 81xx, 86xx, 87xx, 92xx, 93xx, 94xx, and EX or PS grades)
- Boron Steels, Micro-alloyed and Calcium Treated Steels
- German (DIN), Japanese (JAS & JIS), and International Standards (ISO)
- Restrictive and special chemistries are welcomed. Please inquire.

HEAT SIZE

90-100 Ton Heats (85-90 Metric Tons)

40-50 Ton Heats (35-45 Metric Tons)

GERDAU IN-HOUSE VALUE ADDED CAPABILITIES

- MACPLUS® Cold Finished Turning and Polishing
- MACPRIME® Automatic Precision Cutting and Gage Inspecting
- Automatic Ultrasonic and Flux Leakage Testing Lines
 - Magnetic Flux Leakage Surface Inspection
 - Automatic Ultrasonic Internal Core Inspection
 - Automatic Ultrasonic Subsurface Shear-wave Inspection
- Machine Straightening
- Circograph Cold Finished Bar Surface Inspection
- Heat Treatments
 - Cold Shear Anneal
 - Stress Relieving
 - Normalizing
 - Lamellar Pearlitic Annealing
 - Spheroidizing
 - · Quench and Tempering

DAIT OILE & LEITATTI TIATTAL		
MACPLUS® Bright Cold Finished Bar Size Ranges		
Diameter	7/8"-5"	
Lengths	15'-32' (Inquire for shorter or longer lengths)	
Precision Hot Rolled Bar Size Ranges		
Diameter	1"-5"	
Lengths	15'-40' (Inquire for shorter or longer lengths)	
Hot Rolled Bar Size Ranges		
Diameter	5/8"-61/16"	
Lengths	15'-40' (Inquire for shorter or longer lengths)	
Semi-Finished Bar Size Ranges		
Diameter	6"-91/4" (152 mm to 235 mm)	
Lengths	12'-32'	

BAR SIZE & LENGTH RANGE

QUALITY		
Hot Rolled Bars		
Total Decarburization	0.008" to 0.012" Max. (0.2 mm to 0.3 mm) Max.	
Defect Depth	MFLT* Verification	
Size Tolerance	50% ASTM A-29	
Macro ASTM E381	S1-R1-C2	
Micro ASTM E45	A295, A485, A534 and A866	
Precision Hot Rolled Bars		
Total Decarburization	0.008" to 0.012" Max. (0.2 mm to 0.3 mm) Max.	
Size Tolerance	25% AISI and ASTM A-29	
Defect Depth	MFLT* Verification	
MACPLUS® Bright Cold Finished Bars		
Total Decarburization	None	
Size Tolerance	see Macplus® insert	
Defect Depth	None	
Finish	25 Microinches Ra Max.	
Quality	Defect, scale and decarb free surface, offers better machinability, low residual stress and meets or exceeds SAE specifications for cold drawn bars	

^{*} Magnetic Flux Leakage Test

