

**DGC AFRICA** supply grouser bars in the quenched and tempered condition to achieve the hardness required for the typical end user applications.

## CHEMICAL COMPOSITION

The typical range of the main alloying elements for grouser bars are tabled below.

ELEMENT	C	Si	Mn	P	S	Cr	B
MIN. %	0.20	0.15	0.70			0.15	0.001
MAX. %	0.35	0.35	1.40	0.035	0.040	0.65	0.006

## HARDNESS

Minimum 440 HB

## STRENGTH (TYPICAL VALUES)

YIELD STRENGTH  
1200 MPa

TENSILE STRENGTH  
1700 Mpa

% ELONGATION  
6-10

## HEAT TREATMENT

The working temperature of the grouser bars must not exceed 250°C.

## FORMING

**Grouser bars** can be “cold formed”, in spite of their hardness. To avoid the formation of cracks gas cutting must be carried out within the range of 100-150°C.

## WELDING

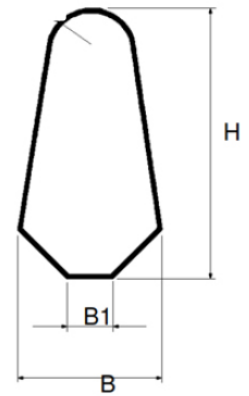
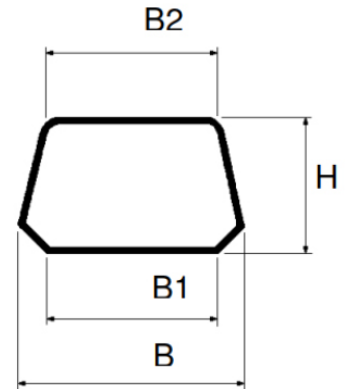
**Grouser bar** has weldability due to the micro-alloying to achieve the metallurgical properties present. However, as a guide, whenever there is a combined sheet thickness of more than 20mm, preheating to 150-200°C is advisable.

Low hydrogen electrodes are recommended to weld the **grouser bars** into position.

TABLED BELOW IS A MORE EXTENSIVE RANGE OF GROUSER BARS PRODUCED.

However, these may on be available in limited stock or on a made to order basis.

PART #	H	B	B1	B2	Wt (kg/m)
GB18	18	19	8	15	2.23
GB24T5*	24	42	33	33	7.1
GB0335	21	24	10	20	3.35
GB0198	22	14	6.3	9.5	1.98
GB46	30	16	4	5	3.17
GB0339	34.9	15.9	6.4	9.5	3.39
GB0545	38.1	23	10	14.3	5.45
GB78	40	22	5	7	5.83
GB0675	44.5	25.4	9.5	14.3	6.75
GB0724	38.1	28.6	6.4	25.4	7.24
GB92	50	27	6	10	8
GB0820	52.4	25.4	9.5	15.8	8.2
GB0945	44.5	31.8	12	25.4	9.45
GB1034	50.8	30.5	10.6	24	10.34
GB1086	60.3	28.6	9.5	19	10.86
GB1211	50.85	34.9	15	28.5	12.11
GB1297	60.3	34.9	12	22	12.97
GB96	65	30	10	10	11.6
GB1624	65	37	15	29	16.24
GB98	68	37	12	14	16
GB1701	68	37	15	29	17.01
GB1875	73	40	16	29	18.75
GB100	75	45	12	37	22
GB2085	76	43	14	30	20.85
GB2110	76	43	16	32	21.1
GB3225	108	44.5	12.7	35	32.25



[www.dgc-africa.com](http://www.dgc-africa.com) | Telephone +27 (16) 421 3720 | Email [contactus@dgc-africa.com](mailto:contactus@dgc-africa.com)

**DGC INTERNATIONAL**

E [International@dgc-africa.com](mailto:International@dgc-africa.com)

2nd Floor, The AXIS,  
26 Bank Street,  
Cybercity,  
Ebene, 72201,  
Mauritius

**DGC SOUTH AFRICA**

T +27 (0) 16 421 3720  
E [sales@dgrpint.com](mailto:sales@dgrpint.com)

10 Smuts Avenue,  
Vereeniging, 1930,  
South Africa

**DGC ZAMBIA**

T +260 761 83 2470  
T +27 (0) 82 319 8005  
E [Zambia@dgc-africa.com](mailto:Zambia@dgc-africa.com)

Plot 2394,  
Freedom Way,  
Mufulira

**DGC ZIMBABWE**

T +263 772 514 480  
E [Zimbabwe@dgc-africa.com](mailto:Zimbabwe@dgc-africa.com)

311 Esap Way,  
Willowvale,  
Harare,  
Zimbabwe

**DGC DEMOCRATIC REPUBLIC OF CONGO**

T +243 8996 49 493  
T +27 (0) 82 319 8005  
E [DRC@dgc-africa.com](mailto:DRC@dgc-africa.com)

**Kolwesi Office:**  
118 Avenue Kalima,  
Quartier Mutoshi,  
Commune Manika / Kolwezi

**Lubumbashi Office:**  
199 Avenue Mubanzo Quartier,  
Golf Malela,  
Commune Lubumbashi,  
Province du Haut-Katanga,  
République démocratique du Congo

**DGC CHINA**

E [China@dgc-africa.com](mailto:China@dgc-africa.com)

**DGC MADAGASCAR**

T +261 32 112 2122  
E [Madagascar@dgc-africa.com](mailto:Madagascar@dgc-africa.com)

Lot Ivx 30,  
Bis Ankazomanga rue,  
Dr Raseta Antananarivo,  
101, Madagascar

**DGC LATAM**

T +55 31 3712 5329  
T +55 31 9961 82402  
E [Brazil@dgc-africa.com](mailto:Brazil@dgc-africa.com)

1200, Carlos Alves dos Santos St.  
35.702-000,  
Industrial District,  
Matozinhos Minas Gerais,  
Brazil

**OUR OFFICES**