

C62730 Nickel Aluminum Bronze (NES 833) Hollow Rods

Applications :

- Marine Valves
- Pumps
- Weapons Handling Systems
- Couplings
- Fasteners
- Gears
- Marine Propeller shafts
- Bearing Races
- Engine Components such as Valve Stems & Valve seats, Worm Gears, Bushes, Cams.



Equivalent Specifications :

Specifications	Designation
BS	CA104
EN	CW307G
JIS	C6301
DIN	2.0966
ISO	CuAl10Ni5Fe4
Russian (GOST)	

Chemical Composition:

	Cu	Pb	Sn	Zn	Fe	Ni	Al	Mg	Mn	Si
Min/Max	REM.	0.05	0.10	0.40	4.0-6.0	4.0-6.0	8.50-11.0	0.05	0.05	0.10

Specifications :

Ingots

Bar

Square

Billets

Plate

Sheet

Flat

Rods

Profiles

Wire

Hollows

Hex

Tubes

Fabrication Properties :

Joining Technique	Suitability
Brazing	Fair
Butt Weld	Good
Capacity for Being Cold Worked	Fair
Capacity for Being Hot Formed	Good
Coated Metal Arc Welding	Good
Gas Shielded Arc Welding	Excellent
Machinability Rating	30
Oxyacetylene Welding	Fair

Seam Weld	Fair
Soldering	Fair
Spot Weld	Good
Forgeability Rating	70

Mechanical Properties :

Form	Tensile N/mm ² (min)	0.2% Proof Stress N/mm ² (min)	Elongation on 5.65 gauge length %	Izod Value J (min)
<15 mm Dia	680	325	17	-
15 mm – 25 mm Dia	680	325	17	24
25 mm – 100 mm Dia	635	295	17	27
>100 mm Dia	620	245	15	23

Physical Properties :

Melting Point	1035°C
Density	7.5 g/cm ³
Specific Gravity	
Electrical Conductivity 20C	7 – 10 IACS
Thermal Conductivity	37.7 – 42 W/m.K
Coefficient of Thermal Expansion 20-300	18 x 10 ⁻⁶
Specific Heat Capacity	
Modulus of Elasticity	115 GPa
Modulus of Rigidity	

Sizes Available:

ROUND RODS	8mm To 70 mm
HEX	10mm To 60mm
SQUARE	10mm To 60mm
FLAT	10mm Min Thickness and max Width 120mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

Regd. Office & Plant

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