

# ALLOY LIST



## MATERIAL GROUPS

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**COPPER NICKEL**  
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**DIN IRON BASED SPECIFICATIONS**  
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**BS EN 1982 - EUROPEAN COPPER ALLOY SPECIFICATION**  
**ROLLS ROYCE GRADES**

**Westley Group can also offer a variety of stainless steel sand castings – a full alloy list is coming soon.**

## NICKEL COPPER

BS 3071 1986 NA1 NI/CU ALLOY (BRITISH STANDARD)  
BS 3071 1986 NA2 NI/CU ALLOY (BRITISH STANDARD)  
BS 3071 1986 NA3 NI/CU ALLOY (BRITISH STANDARD)

## COPPER NICKEL

70/30 CUPRO NICKEL  
90/10 CUPRO NICKEL  
BS EN 1982:1999 CuNi30Cr2FeMnSi-C GZ CC382H  
BS EN 1982:1999 CuNi30Fe1Mn1NbSi-C GZ CC383H



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## **BS 1490 - ALUMINIUM GRADES**

BS1490 LM6  
BS1490 LM13  
BS1490 LM20  
BS1490 LM27  
BS1490 LM25  
BS1490 LM25-TB7  
BS1490 LM25-TF  
BS1490 LM4  
BS1490 LM4-TF  
BS1490 LM 31  
BS L169

## **NAVAL ENGINEERING SPECIFICATIONS**

NES 747 PART 1  
NES 747 PART 2  
NES 747 PART 3  
NES 747 PART 4  
NES 824 PART 1  
NES 830 PART 1  
NES 834 PART 3  
NES 836 PART 1  
NES 839

## **DEFENCE STANDARDS**

DEF STAN 02-747 PT1  
DEF STAN 02-747 PT2  
DEF STAN 02-747 PT3  
DEF STAN 02-747 PT4  
DEF STAN 02-824 PT1  
DEF STAN 02-830 PT1  
DEF STAN 02-834 PT3  
DEF STAN 02-839



## **GREY IRON SPECS**

BS1452 GRADE 180 CAST IRON  
BS1452 GRADE 220 CAST IRON  
BS1452 GRADE 250 CAST IRON  
BS1452 GRADE 260 CAST IRON  
BS1452 GRADE 350 CAST IRON  
BS EN 1561 EN-GJL-100 CAST IRON  
BS EN 1561 EN-GJL-150 CAST IRON  
BS EN 1561 EN-GJL-200 CAST IRON  
BS EN 1561 EN-GJL-250 CAST IRON  
BS EN 1561 EN-GJL-350 CAST IRON  
BS EN 1561 EN-GJL-300 CAST IRON

## **SG IRON**

BS 2789 GRADE 420/12 S G IRON  
BS EN 1563 EN-GJS-350-22U S G IRON  
BS EN 1563 EN-GJS-400-15U S G IRON  
BS EN 1563 EN-GJS-400-18U.S G IRON  
BS EN 1563 EN-GJS-450-10U S G IRON  
BS EN 1563 EN-GJS-500-7U S G IRON  
BS EN 1563 EN-GJS-600-3U S G IRON  
BS EN 1563 EN-GJS-700-2U S G IRON  
BS EN 1563 EN-GJS-800-2U S G IRON  
BS EN 1563 EN-GJS-900-2U S G IRON

## **AUSTENITIC IRON**

BS 3468 F1 AUSTENITIC IRON  
BS 3468 F2 AUSTENITIC IRON  
BS 3468 F3 AUSTENITIC IRON  
BS 3468 S2 AUSTENITIC IRON  
BS 3468 S2W AUSTENITIC IRON  
BS 3468 S2C AUSTENITIC IRON  
BS 3468 S2B (SG) AUSTENITIC IRON  
BS 3468 S3 (SG) AUSTENITIC IRON  
BS 3468 L-Ni Cu Cr 15.6.2

## **ASTM IRON SPECIFICATIONS**

ASTM A48 - GRADE 25  
ASTM A48 - GRADE 30  
ASTM A48 - GRADE 35  
ASTM A48 - GRADE 60

## ASTM COPPER SPECIFICATIONS

ASTM B148 - C95200  
ASTM B148 - C95300  
ASTM B148 - C95400  
ASTM B148 - C95500  
ASTM B148 - C95600  
ASTM B148 - C95700  
ASTM B148 - C95800  
ASTM B148 - C95900  
ASTM B271 - C83600  
ASTM B271 - C85700  
ASTM B271 - C86300  
ASTM B271 - C90300  
ASTM B271 - C90500  
ASTM B271 - C92200  
ASTM B271 - C93800  
ASTM B271 - C95400  
ASTM B271 - C95500  
ASTM B271 - C95800  
ASTM B271 - C97600  
ASTM B584 - C85700  
ASTM B584 - C86200  
ASTM B584 - C90300  
ASTM B584 - C90500  
ASTM B584 - C92200  
ASTM B584 - C93200  
ASTM B584 - C93700

## DIN COPPER BASED SPECIFICATIONS

DIN 1705 - GZ-CU SN BZ14  
DIN 1705 - GZ-CU SN 7 ZN PB  
DIN 1705 - GZ-CU SN 12 PB  
DIN 1705 - GZ-CU SN 12  
DIN 1705 - GZ-CU SN 12 NI  
DIN 1705 - G -CU SN 10  
DIN 1705 - G - CU SN 5 ZN PB  
DIN 1709 - GZ-CU ZN25 AL5  
DIN 1709 - GZ-CU ZN33 PB  
DIN 1709 - GZ-CU ZN34 AL2  
DIN 1709 - GZ-CU ZN35 AL1  
DIN 1709 - GZ-CU ZN37 PB  
DIN 1714 - GZ-CU AL9 NI  
DIN 1714 - GZ-CU AL10 NI  
DIN 1714 - GZ-CU AL11 NI  
DIN 1714 - GZ-CU AL10 FE  
DIN 1716 - GZ-CU PB15 SN  
DIN 1716 - GZ-CU PB 10 SN



## **DIN IRON BASED SPECIFICATIONS**

DIN 1691 GG-25  
DIN 1691 GG-30  
DIN 1694 GGG NI CR NB 20 2  
DIN 1694 GGG NI CR 20 2  
DIN 1694 GGL NI CR 30 3  
DIN 1693 - G.G.G.40  
DIN 1693 - G.G.G.50  
DIN 1693 - G.G.G.60

## **BS1400- BRITISH STANDARD COPPER ALLOYS**

BS1400 - AB1 - ALUMINIUM BRONZE  
BS1400 - AB2 - ALUMINIUM BRONZE  
BS1400 - AB3 - ALUMINIUM SILICON BRONZE  
BS1400 - PB1 - PHOSPHOR BRONZE  
BS1400 - PB2 - PHOSPHOR BRONZE  
BS1400 - PB4 - PHOSPHOR BRONZE  
BS1400 - LPB1 - LEADED PHOSPHOR BRONZE  
BS1400 - LB2 - LEADED BRONZE  
BS1400 - LB4 - LEADED BRONZE  
BS1400 - LG1 - LEADED GUNMETAL  
BS1400 - LG2 - LEADED GUNMETAL  
BS1400 - LG4 - LEADED GUNMETAL  
BS1400 - SCB1 - BRASS FOR SAND CASTINGS  
BS1400 - SCB3 - BRASS FOR SAND CASTINGS  
BS1400 - SCB4 - NAVAL BRASS FOR SAND CASTING  
BS1400 - DCB1 - BRASS FOR DIE CASTINGS  
BS1400 - DCB3 - BRASS FOR DIE CASTINGS  
BS1400 - LB1 - LEADED BRONZE  
BS1400 - G1 - GUNMETAL  
BS1400 - G3 - NICKEL GUNMETAL  
BS1400 - CT1 - COPPER-TIN  
BS1400 - CT2 - COPPER TIN  
BS1400 - CN1 - COPPER NICKEL CHROMIUM  
BS1400 - CN2 - COPPER NICKEL NIOBIUM  
BS1400 - CC1-TF COPPER CHROMIUM  
BS1400 - CMA1 - COPPER MANGANESE ALUMINIUM  
BS1400 - HTB1 - HIGH TENSILE BRASS  
BS1400 - HTB3 - HIGH TENSILE BETA BRASS



## BS EN 1982 - EUROPEAN COPPER ALLOY SPECIFICATION

BS EN 1982 : 1999 CUZN39PB1AL-C - CC754S - GS  
BS EN 1982 : 1999 CUZN39PB1AL-C - CC754S - GZ  
BS EN 1982 : 1999 CUZN25AL5MN4FE3-C - CC762S - GS  
BS EN 1982 : 1999 CUZN25AL5MN4FE3-C - CC762S - GZ  
BS EN 1982 : 1999 CUZN35MN2AL1FE1-C - CC765S - GS  
BS EN 1982 : 1999 CUZN35MN3AL1FE1-C - CC765S - GZ  
BS EN 1982 : 1999 CUSN10-C - CC480K - GS  
BS EN 1982 : 1999 CUSN10-C - CC480K - GZ  
BS EN 1982 : 1999 CUSN11P-C - CC481K - GS  
BS EN 1982 : 1999 CUSN11P-C - CC481K - GZ  
BS EN 1982 : 1999 CUSN12-C - CC483K - GS  
BS EN 1982 : 1999 CUSN12-C - CC483K - GZ  
BS EN 1982 : 1999 CUSN12NI2-C - CC484K - GS  
BS EN 1982 : 1999 CUSN12NI2-C - CC484K - GZ  
BS EN 1982 : 1999 CUSN3ZN8PB5-C - CC490K - GS  
BS EN 1982 : 1999 CUSN3ZN8PB5-C - CC490K - GZ  
BS EN 1982 : 1999 CUSN5ZN5PB5-C - CC491K - GS  
BS EN 1982 : 1999 CUSN5ZN5PB5-C - CC491K - GZ  
BS EN 1982 : 1999 CUSN7ZN2PB3-C - CC492K - GS  
BS EN 1982 : 1999 CUSN7ZN2PB3-C - CC492K - GZ  
BS EN 1982 : 1999 CUSN5PB9-C - CC494K - GS  
BS EN 1982 : 1999 CUSN5PB9-C - CC494K - GZ  
BS EN 1982 : 1999 CUSN10PB10-C - CC495K - GS  
BS EN 1982 : 1999 CUSN10PB10-C - CC495K - GZ  
BS EN 1982 : 1999 CUSN7PB15-C - CC496K - GS  
BS EN 1982 : 1999 CUSN7PB15-C - CC496K - GZ  
BS EN 1982 : 1999 CUA110FE2-C - CC331G - GS  
BS EN 1982 : 1999 CUA110FE2-C - CC331G - GZ  
BS EN 1982 : 1999 CUA110FE5NI5-C - CC333G - GS  
BS EN 1982 : 1999 CUA110FE5NI5-C - CC333G - GZ  
BS EN 1982 : 1999 CUZN33PB2-C - CC750S - GS  
BS EN 1982 : 1999 CUZN33PB2-C - CC750S - GZ  
BS EN 1982 : 1999 CUZN34MN3A12FE1-C - CC764S - GS  
BS EN 1982 : 1999 CUZN34MN3A12FE1-C - CC764S - GZ

## ROLLS ROYCE GRADES

MSRR 6019  
MSRR 6048  
MSRR 6059  
MSRR 6085  
MSRR 6086  
MSRR 6517  
MSRR 6527  
MSRR 6534  
MSRR 6536  
MSRR 6613  
MSRR 8506  
MSRR 9538  
MSRR 9590



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