

## Summary of ISO / TR 15608

### Steel (Group 1 – 11)

#### **Group 1:**

Steels with  $C \leq 0.25$ ,  $Si \leq 0.60$ ,  $Mn \leq 1.8$ , etc. with yield strength specified as below:

**Gr 1.1:**  $y.s \leq 275 \text{ N / mm}^2$

**Gr 1.2:**  $275 \text{ N / mm}^2 \leq y.s \leq 360 \text{ N / mm}^2$

**Gr 1.3:** Normalised Steels with  $y.s > 360 \text{ N / mm}^2$

**Gr 1.4:** Steels with improved atmospheric corrosion resistance, with analysis which may exceed the above specification.

#### **Group 2:**

Thermo mechanically treated fine grain steels and cast steels with as below:

2.1:  $360 \text{ N / mm}^2 < y.s. \leq 460 \text{ N / mm}^2$

2.2:  $y.s. > 460 \text{ N / mm}^2$

#### **Group 3:**

Quenched and Precipitation hardened fine grain steels (except stainless steels) with  $y.s. > 360 \text{ N / mm}^2$

#### **Group 4:**

Low Vanadium Alloyed Cr-Mo-(Ni) steels with  $MO \leq 0.7 \%$  and  $V \leq 0.1 \%$

#### **Group 5:**

Cr-Mo steels free of Vanadium and  $C \leq 0.35 \%$

#### **Group 6:**

High Vanadium alloyed Cr-Mo-(Ni) steels.

#### **Group 7:**

Ferritic, Martensitic or Precipitation hardened stainless steels with  $C \leq 0.35 \%$  and  $10.5 \% \leq Cr \leq 30 \%$

#### **Group 8:**

Austenitic Stainless Steels,  $Ni \leq 31 \%$

#### **Group 9:**

Nickel Alloy steels.

#### **Group 10:**

Austenitic – Ferritic (duplex) stainless steels.

#### **Group 11:**

Steels covered by Group I with  $0.25 \% \leq C \leq 0.85 \%$

## Aluminium and Aluminium Alloys (Group 22 - 26)

### **Group 21:**

Pure Aluminium with  $\leq 1\%$  impurities or alloy content.

### **Group 22:**

Non Heat Treatable Al alloys  
Al – Mn & Al - Mg alloys.

### **Group 23:**

Heat Treatable Al alloys.  
Al – Mg -Si , Al – Zn - Mg alloys.

### **Group 24:**

Al – Si alloys.

### **Group 25:**

Al-Si-Cu alloys.

### **Group 26:**

Al – Cu alloys.

## Copper and Copper Alloys (Group 31 – 38)

### **Group 31:**

Copper with  $\leq 6\%$  Ag and  $\leq 3\%$  Fe

### **Group 32:**

Copper – Zinc alloys.

### **Group 33:**

Copper – tin alloys.

### **Group 34:**

Copper – Nickel alloys.

### **Group 35:**

Copper – Aluminium alloys.

### **Group 36:**

Copper – Nickel – Zinc alloys.

### **Group 37:**

Copper alloys, low alloyed.

### **Group 38:**

Other Copper alloys.

### Nickel and Nickel Alloys (Group 41 – 48)

**Group 41:**

Pure Nickel

**Group 42:**

Nickel – Copper alloys.

**Group 43:**

Nickel – Chromium alloys.

**Group 44:**

Nickel – Molybdenum alloys.

**Group 45:**

Nickel – Iron Chromium alloys.

**Group 46:**

Nickel – Chromium – Cobalt alloys.

**Group 47:**

Nickel – Iron – Chromium – Copper alloys.

**Group 48:**

Nickel – Iron – Cobalt alloys.

### Titanium and Titanium Alloys (Group 51 – 54)

**Group 51:**

Pure Titanium

**Group 52:**

Alpha alloys.

**Group 53:**

Alpha – Beta alloys.

**Group 54:**

Near Beta and Beta alloys.

### Zirconium and Zirconium Alloys (Group 61 – 62)

**Group 61:**

Pure Zirconium

**Group 62:**

Zirconium with 2.5 % Nb.

**Cast Iron (Group 71 – 76)**

**Group 71:**

Grey Cast Iron.

**Group 72:**

Spheroidal Graphitic Cast Iron.

**Group 73:**

Malleable Cast Iron.

**Group 74:**

Austempered ductile Cast Iron.

**Group 75:**

Austenetic Cast Iron.

**Group 76:**

Cast Irons excepting groups 71 – 75.