

# PROPERTIES – WEAR PLATE

## STEELHARD®-S480

### BASE MATERIAL

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S235JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### HARDFACING LAYER

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Alloy : C, Cr, Mn
- 4- Maximum thickness in 1 layer : 7 mm
- 5- Thickness tolerances : -0/+1 mm
- 6- Widths of the cord : 30-35 mm.
- 7- Welding direction : lengthways of the plate
- 8- Makro hardness : 60 HRc
- 9- Makro hardness tolerances : -0/+1,5 HRc

### WEAR PLATE AFTER HARDFACING

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : resistant to abrasion and impact till 350°C .
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Dimensions of the standard plates : see separate sheet

Disclaimer : the information contained or otherwise referenced herein is presented only as “typical” without guarantee or warranty. Steeltech-Services® expressly disclaims any reliance thereon. Typical data are those obtained when welded and tested in accordance with Steeltech-Services® internal procedures. Other tests and procedures may produce different results.

STEELTECH-SERVICES® SPRL  
Rue Langhaag, 87



B 4850 PLOMBIERES – Belgium  
Tel/ 003287788230 – Fax/ 003287788342  
[www.steeltech-services.be](http://www.steeltech-services.be) – [info@steeltech-services.be](mailto:info@steeltech-services.be)



# **PROPERTIES – WEAR PLATE**

## **STEELHARD® – S480T**

### **BASE MATERIAL**

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S235JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### **HARDFACING LAYER**

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Alloy : C, Cr, Mo, Si, Mn, Ni
- 4- Maximum thickness in 1 layer : 7 mm
- 5- Thickness tolerances : -0/+1 mm
- 6- Widths of the cord : 30-35 mm.
- 7- Welding direction : lengthways of the plate
- 8- Makro hardness : 60 HRc
- 9- Makro hardness tolerances : -0/+1,5 HRc

### **WEAR PLATE AFTER HARDFACING**

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : resistant to abrasion and erosion till 500°C.
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Dimensions of the standard plates : see separate sheet

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# PROPERTIES – WEAR PLATE

## STEELHARD®- S500

### BASE MATERIAL

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S235JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### HARDFACING LAYER

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Alloy : C, Cr, Si, Mn, Nb
- 4- Maximum thickness in 1 layer : 7 mm
- 5- Thickness tolerances : -0/+1 mm
- 6- Widths of the cord : 30-35 mm.
- 7- Welding direction : lengthways of the plate
- 8- Makro hardness : 62 HRc
- 9- Makro hardness tolerances : -0/+1,5 HRc

### WEAR PLATE AFTER HARDFACING

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : good resistance to abrasion till 350°C
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Dimensions of the standard plates : see separate sheet

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# PROPERTIES – WEAR PLATE

## STEELHARD®-S500B

### BASE MATERIAL

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S235JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### HARDFACING LAYER

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Alloy : C, Cr, Si, Mn, Nb, B
- 4- Maximum thickness in 1 layer : 7 mm
- 5- Thickness tolerances : -0/+1 mm
- 6- Widths of the cord : 30-35 mm.
- 7- Welding direction : lengthways of the plate
- 8- Makro hardness : 63 HRc
- 9- Makro hardness tolerances : -0/+1,5 HRc

### WEAR PLATE AFTER HARDFACING

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : very good resistance to abrasion till 350°C
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Dimensions of the standard plates : see separate sheet

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# **PROPERTIES – WEAR PLATE**

## **STEELHARD®-S500V**

### **BASE MATERIAL**

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S235JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### **HARDFACING LAYER**

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Chemical analyse : Alloy C, Cr, Nb, V, B
- 4- Maximum thickness in 1 layer : 7 mm
- 5- Thickness tolerances : -0/+1 mm
- 6- Widths of the cord : 30-35 mm.
- 7- Welding direction : lengthways of the plate
- 8- Makro hardness : 63-65 HRc
- 9- Makro hardness tolerances : -0/+1,5 HRc

### **WEAR PLATE AFTER HARDFACING**

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : high abrasion, medium impact resistance.
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Hardfacing area : 1950x900, 2450x1150, 2950x1400, 1900x2950, 1900x3850

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# PROPERTIES – WEAR PLATE

## STEELHARD®-S504

### BASE MATERIAL

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S335JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### HARDFACING LAYER

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Chemical analyse after hardfacing :  
4 %C, 34%Cr, 0.9%Si, 0.25%Mn, 1.8%Nb, 1.2%B  
Maximum thickness in 1 layer : 5 mm
- 4- Thickness tolerances : -0/+1 mm
- 5- Widths of the cord : 30-35 mm.
- 6- Welding direction : lengthways of the plate
- 7- Makro hardness : 900 HV
- 8- Makro hardness tolerances : +/- 20 HV

### WEAR PLATE AFTER HARDFACING

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : high abrasion, high erosion.
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Hardfacing area : 1950x900, 2450x1150, 2950x1400, 1900x2950, 1900x3850

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# PROPERTIES – WEAR PLATE

## STEELHARD®-S550

### BASE MATERIAL

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S235JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### HARDFACING LAYER

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Alloy : C, Cr, Mo, Mn, Nb, V, W
- 4- Maximum thickness in 1 layer : 7 mm
- 5- Thickness tolerances : -0/+1 mm
- 6- Widths of the cord : 30-35 mm.
- 7- Welding direction : lengthways of the plate
- 8- Makro hardness : approx. 65 HRc (after 3 layers)
- 9- Makro hardness tolerances : -0/+1,5 HRc

### WEAR PLATE AFTER HARDFACING

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : high abrasion
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Hardfacing area : 1950x900, 2450x1150, 2950x1400, 1900x2950, 1900x3850

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# PROPERTIES – WEAR PLATE

## STEELHARD®-S557

### BASE MATERIAL

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S235JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### HARDFACING LAYER

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Alloy : C, Cr,
- 4- Maximum thickness in 1 layer : 7 mm
- 5- Thickness tolerances : -0/+1 mm
- 6- Widths of the cord : 30-35 mm.
- 7- Welding direction : lengthways of the plate
- 8- Makro hardness : 60 HRc
- 9- Makro hardness tolerances : -0/+1,5 HRc

### WEAR PLATE AFTER HARDFACING

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : resistant to abrasion and impact till 350°C .
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Dimensions of the standard plates : see separate sheet

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# **PROPERTIES – WEAR PLATE**

## **STEELHARD®-S590**

### **BASE MATERIAL**

- 1- Non alloy quality steel, other qualities on request.
- 2- Symbol : S235JR
- 3- Standard : DIN- EN 10025
- 4- Material number : 1.0037
- 5- Thickness tolerances : DIN – EN 10029

### **HARDFACING LAYER**

- 1- Arc welding process : Open-Arc – OA – DIN – EN – ISO 5817-2.12D
- 2- Cladding : DIN 8555, group 10
- 3- Alloy : C, Cr, Mo
- 4- Maximum thickness in 1 layer : 7 mm
- 5- Thickness tolerances : -0/+1 mm
- 6- Widths of the cord : 30-35 mm.
- 7- Welding direction : lengthways of the plate
- 8- Makro hardness : 59 HRc
- 9- Makro hardness tolerances : -0/+1,5 HRc

### **WEAR PLATE AFTER HARDFACING**

- 1- Thickness tolerances : -0/+1 mm
- 2- Physical properties : good resistance to abrasion and average corrosion
- 3- Flatness tolerances : max. 3 mm/1000 mm.
- 4- Dimensions of the standard plates : see separate sheet

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