

## CIMM GROUP

### -----ROLLING MILL ROLLS

# Adamite Rolls

#### 1. Chemical Analysis

Grade	C	Si	Mn	P	S	Ni	Cr	Mo
ZuB140CrNiMo	1.30~1.50	0.30~0.60	0.70~1.10	≤0.035	≤0.03	0.20~0.80	0.80~1.20	0.20~0.60
ZuB160CrNiMo	1.50~1.70	0.30~0.60	0.70~1.10	≤0.035	≤0.03	0.20~1.00	0.80~1.20	0.20~0.60
ZuB180CrNiMo	1.70~1.90	0.30~1.00	0.70~1.20	≤0.035	≤0.03	0.60~1.50	1.00~1.50	0.20~0.80
ZuB200CrNiMo	1.90~2.10	0.30~1.00	0.70~1.20	≤0.035	≤0.03	1.00~2.00	1.20~2.00	0.20~0.80

#### 2. Physical Properties

Grade	Barrel hardness HSD	Tensile strength MPa	Elongation %	Impact toughness J/cm
ZuB140CrNiMo	35~45	≥590	≥1.0	≥4
ZuB160CrNiMo	38~53	≥540	≥1.0	≥4
ZuB180CrNiMo	42~55	≥500	≥0.5	≥4
ZuB200CrNiMo	45~60	≥450	≥0.5	≥4

#### 3. Microstructure

Microstructure of working layer in the barrel: pearlite + carbide/fine pearlite + small percentage bainite + carbide

#### 4. Application

Roughing, intermediate stands of section mill and bar mill, roughing stands of high speed wire – rob mill, roughing stands of hot strip mill, vertical rolls, back – up rolls sleeves, straightening rolls.

#### 5. Scope of Supply

Type of rolls	Barrel diameter mm	Barrel length mm
Adamite rolls	Φ 1500	3000
Adamite mills straighten rolls	Φ 1400	800

## Alloy Chilled Cast Iron Rolls

### 1. Chemical Analysis

Designation of rolls	C	Si	Mn	P	S	Ni	Cr	Mo
NiCrMo chilled cast iron rolls ( I )	3.20	0.40	0.20	≤0.40	≤0.10	0.50	0.20	0.20
	~	~	~			~	~	~
	3.70	0.80	0.50			1.00	0.60	0.60
NiCrMo chilled cast iron rolls ( II )	3.20	0.40	0.20			1.01	0.30	0.20
	~	~	~	≤0.40	≤0.10	~	~	~
	3.70	0.80	0.50			2.00	1.20	0.60
NiCrMo chilled cast iron rolls ( III )	3.20	0.40	0.20			2.01	0.50	0.20
	~	~	~			~	~	~
	3.70	0.80	0.50	≤0.40	≤0.10	3.00	1.50	0.60

### 2. Physical Properties

Designation of rolls	Barrel hardness HSD	Neck hardness HSD	Tensile strength MPa	Depth of chilled lager			
				Section roll			
				<Φ 200	Φ201~250	Φ251~300	>Φ 300
NiCrMo chilled cast iron rolls ( I )	60~70	32~50	>150	12~25	15~30	17~35	20~45
NiCrMo chilled cast iron rolls ( II )	62~75	35~52	>150	12~25	15~30	17~35	20~45
NiCrMo chilled cast iron rolls ( III )	65~80	40~55	>150	12~25	15~30	17~35	20~45

### 3. Microstructure

Designation of rolls	Microstructure
NiCrMo chilled cast iron rolls ( I )	Pearlite + Cementite + Ledeburite
NiCrMo chilled cast iron rolls ( II )	Fine pearlite + cementite + ledeburite
NiCrMo chilled cast iron rolls ( III )	Sorbite + cementite + ledeburite

#### 4. Application

Designation of rolls	Application
NiCrMo chilled cast iron rolls ( I )	Section mill, bar mill, wire – rob mill narrow strip mill, finishing stand
NiCrMo chilled cast iron rolls ( II )	Section mill, bar mill, wire – rob mill narrow strip mill, finishing stand
NiCrMo chilled cast iron rolls ( III )	Section mill, bar mill, wire – rob mill narrow strip mill, finishing stand ,tube stretch reducing mill

#### 5. Scope of supply

Barrel diameter  $\leq \Phi 500\text{mm}$ ; Barrel length  $\leq 2000\text{mm}$

# Alloy indefinite chilled (enhanced) duplex spun - cast rolls

## Typical chemical analysis

Code	HSC	C	Si	Mn	Ni	Cr	Mo
AS1	65~70	3.0/3.6	0.7/1.2	0.8/1.5	3.0/4.0	1.0/1.5	0.1/0.45
AS2	70~75	3.0/3.6	0.7/1.0	0.3/1.5	3.5/5.0	1.0/2.0	0.1/0.45
AS3	75~85	3.0/3.7	0.6/1.0	0.3/1.5	4.0/5.0	1.2/2.0	0.2/0.5
AS4	63~75	3.0/3.6	0.7/1.2	0.3/1.5	3.5/4.5	1.0/2.0	0.1/0.45
AS5	70~77	3.0/3.6	0.7/1.2	0.3/1.5	3.8/4.8	1.0/2.0	0.1/0.45
AS6	75~82	3.0/3.6	0.7/1.2	0.3/1.5	4.0/5.0	1.0/2.0	0.1/0.45
Enhanced							

## Typical mechanical properties

Properties	N/mm <sup>2</sup>		
	Barrel	Neck / Corel	
		gray cast iron	SG cast iron
Tensile strength	345	235	425
Bending strength	540	345	835

## Microstructure

Tempered sorbite + bainite + carbide + graphite

Or bainite + small percentage martensite + carbide + graphite

## Application

Work rolls for later finishing stands of hot strip mill, work rolls for roughing finishing stands of wide and medium plate mill, work mills of steckle mill, work rolls and back up rolls for tempering stands of four – high hot strip mill, work rolls for cold four – high narrow strip mill

## Scope of supply

Barrel diameter  $\Phi$ 500-1300mm,

Barrel length 1000-4000mm.

## High speed (semi - high speed) steel duplex spun - cast rolls

### Typical of chemical analysis

Code	HSC	C	Si	Mn	Ni	Cr	Mo	V	W
HSS1	65-90	1.0/2.5	0.5/1.0	0.1/1.0	0.3/1.5	4.5/9.5	0.5/4.5	4.0/6.0	0.5/6.0
HSS2	65-85	0.5/1.5	0.5/1.5	0.4/1.0	0.3/1.5	2.0/6.0	0.5/4.0	0.5/3.0	0.5/3.0

### Typical mechanical properties

Properties	N/mm <sup>2</sup>	
	Barrel	neck/corel
		SG cast iron
Tensile strength	800 - 1050	425 - 500
Bending strength	770 - 1020	425 - 500

### Microstructure

Tempered martensite + small percentage bainite + carbide

### Application

Work rolls for roughing stands and front finishing stands of hot strip mill, work rolls for cold strip mill

### Scope of supply

Barrel diameter Φ500-1300mm, and barrel length 1000-4000mm.

# Alloy SG rolls

## 1. Chemical Analysis

Designation of rolls	C	Si	Mn	P	S	Ni	Cr	Mo	Mg
CrMo semi – chilled SG cast iron rolls	3.20/3.70	1.00/2.50	0.50/1.00	≤0.02	≤0.03		0.20/0.60	0.20/0.60	>0.04
CrMo indefinite chilled SG cast iron rolls	3.20/3.70	1.00/2.50	0.50/1.00	≤0.02	≤0.03		0.20/0.60	0.20/0.60	>0.04
NiCrMo indefinite chilled SG cast iron rolls (I)	3.20/3.70	1.00/2.50	0.50/1.0	≤0.02	≤0.03	0.50/1.00	0.20/0.60	0.20/0.60	>0.04
NiCrMo indefinite chilled SG cast iron rolls (II)	3.20/3.70	1.00/2.50	0.50/1.00	≤0.02	≤0.03	1.01/3.00	0.30/1.20	0.20/0.80	>0.04
NiMo SG cast iron rolls (I)	3.20/3.60	1.50/2.40	0.40/0.80	≤0.05	≤0.03	1.00/2.50	0.10/0.50	0.40/0.80	>0.04
NiMo SG cast iron rolls (II)	3.20/3.60	1.20/2.40	0.40/0.80	≤0.01	≤0.03	2.51/3.50	0.10/0.50	0.40/1.00	>0.04

## 2. Physical Properties

Designation of rolls	Barrel hardness HSD	Neck hardness HSD	Tensile strength MPa
CrMo semi – chilled SG cast iron rolls	40/55	32/50	>300
CrMo indefinite chilled SG cast iron	55/70	35/55	>300

rolls			
NiCrMo indefinite chilled SG cast iron rolls (I)	48/70	35/55	>320
NiCrMo indefinite chilled SG cast iron rolls (II)	48/70	35/55	>320
NiMo SG cast iron rolls (I)	42/52	32/43	>400
NiMo SG cast iron rolls (II)	55/75	35/55	>400

### 3. Microstructure

Designation of rolls	Microstructure
CrMo semi – chilled SG cast iron rolls	Pearlite + cementite + SG + small percentage ferrite
CrMo indefinite chilled SG cast iron rolls	Pearlite + cementite + SG
NiCrMo indefinite chilled SG cast iron rolls (I)	Pearlite + cementite + SG
NiCrMo indefinite chilled SG cast iron rolls (II)	Fine pearlite + cementite + SG
NiMo SG cast iron rolls (I)	Sorbite + cementite + SG
NiMo SG cast iron rolls (II)	Bainite + cementite + SG

### 4. Application

Designation of rolls	Application
CrMo semi – chilled SG cast iron rolls	Section mill, bar mill, roughing stands of wire rob mill, work roll of rail mill
CrMo indefinite chilled SG cast iron rolls	Section mill, bar mill, intermediate and finishing stands of wire rob mill
NiCrMo indefinite chilled SG cast iron rolls (I)	Section mill, bar mill, intermediate and finishing stands of wire rob mill
NiCrMo indefinite chilled SG cast iron rolls (II)	Section mill, bar mill, intermediate and finishing stands of wire rob mill
NiMo SG cast iron rolls (I)	Section mill, bar mill, roughing stand of wire rob mill
NiMo SG cast iron rolls (II)	Section mill, bar mill, intermediate and finishing stands of intermediate and prefinishing stand of wire rob mill, tube stretch reducing mill.

### 5. Scope of supply

All dimensions of rolls

# High chrome steel duplex spun-cast rolls

## 1. Typical of chemical analysis

code	HSC	C	Si	Mn	Ni	Cr	Mo
ES	70-85	1.0/1.6	0.4/1.0	0.4/1.0	0.5/1.5	10/14.0	1.5/4.5

## 2. Typical mechanical properties

Properties	N/mm <sup>2</sup>	
	Barrel	Neck / corel SG cast iron
Tensile strength	750-930	425-500
Bending strength	950-1300	550-900

### Microstructure

Tempered sorbite or martensite + carbide

### Application

Work rolls for roughing stands and front finishing stands of strip mill, work rolls for wide and medium plate mill,

Work rolls for cold strip mill

### Scope of supply:

Barrel diameter  $\Phi$ 500-1300mm,

Barrel length 1000-4000mm

# Alloy cast steel rolls

## 1、 Chemical analysis

Grades	C	Si	Mn	P	S	Ni	Cr	Mo
Zu60CrMnMo	0.55 ~ 0.65	0.20 ~ 0.45	0.90 ~ 1.20	≤0.035	≤0.03		0.80 ~ 1.20	0.30 ~ 0.45
Zu65CrNiMo	0.60 ~ 0.70	0.20 ~ 0.60	0.50 ~ 0.80	≤0.035	≤0.03	0.30 ~ 0.80	0.80 ~ 1.20	0.30 ~ 0.45
Zu70Mn	0.65 ~ 0.75	0.20 ~ 0.45	0.80 ~ 1.40	≤0.035	≤0.03			
Zu70Mn2	0.65 ~ 0.75	0.20 ~ 0.45	1.40 ~ 1.80	≤0.035	≤0.03			
Zu70Mn2Mo	0.65 ~ 0.75	0.20 ~ 0.45	1.40 ~ 1.80	≤0.035	≤0.03			0.30 ~ 0.45
Zu75CrMo	0.70 ~ 0.80	0.20 ~ 0.45	0.60 ~ 0.90	≤0.035	≤0.03		0.75 ~ 1.00	0.30 ~ 0.45
Zu75CrNiMnMo	0.70 ~ 0.80	0.20 ~ 0.60	0.60 ~ 1.10	≤0.035	≤0.03	0.30 ~ 1.00	0.90 ~ 1.20	0.30 ~ 0.45
Zu75Cr3NiMo	0.70 ~ 0.80	0.20 ~ 0.60	0.60 ~ 1.10	≤0.035	≤0.03	0.50 ~ 1.50	2.50 ~ 3.00	0.30 ~ 0.45
Zu80Cr	0.75 ~ 0.85	0.20 ~ 0.45	0.50 ~ 0.80	≤0.035	≤0.03		0.45 ~ 0.70	0.20 ~ 0.45

## 2、 Mechanical properties

Grades	Barrel hardness HSD	Tensile strength Mpa	Elongation %	Impact toughness J/cm
Zu60CrMnMo	32 ~ 42	≥740	≥5	≥8
Zu65CrNiMo	35 ~ 45	≥800	≥5	≥8
Zu70Mn	35 ~ 45	≥740	≥5	≥8
Zu70Mn2	35 ~ 45	≥740	≥5	≥8
Zu70Mn2Mo	36 ~ 46	≥770	≥5	≥8
Zu75CrMo	36 ~ 46	≥770	≥5	≥8
Zu75CrNiMnMo	36 ~ 46	≥800	≥5	≥8
Zu75Cr3NiMo	45 ~ 55	≥700	≥3	≥5
Zu80Cr	38 ~ 48	≥790	≥5	≥7

## 3、 Microstructure

Microstructure of working layer in the barrel: pearlite or tempered sorbite

## 4、 Application

Billet、 slab blooming mill、 roughing stands of section mill、 back-up rolls of hot strip mill

## 5、 Scope of supply :

Barrel diameter ≤Φ1500mm

Barrel length ≤3000mm

# Duplex spun-cast duplex static-cast iron rolls

## 1、 Chemical analysis

Designation of rolls	C	Si	Mn	P	S	Ni	Cr	Mo	Mg
NiCrMo chilled duplex spun-cast cast iron rolls	2.90 ~ 3.60	0.30 ~ 0.80	0.20 ~ 0.50	≤0.40	≤0.10	3.0 ~ 4.50	0.50 ~ 1.70	0.20 ~ 0.60	>
NiCrMo indefinite chilled duplexspun-cast cast iron rolls	2.90 ~ 3.60	0.60 ~ 1.00	0.50 ~ 1.00	≤0.20	≤0.10	3.0 ~ 5.00	1.00 ~ 2.00	0.20 ~ 0.60	>
NiCrMo duplex spun-cast SG cast iron roll ( )	2.90 ~ 3.60	1.00 ~ 2.20	0.40 ~ 0.70	≤0.10	≤0.03	2.5 ~ 3.50	0.10 ~ 0.60	0.40 ~ 1.00	> 0.04
NiCrMo duplex spun-cast SG cast iron roll ( )	2.90 ~ 3.60	1.00 ~ 2.20	0.40 ~ 0.70	≤0.10	≤0.03	3.5 ~ 4.50	0.10 ~ 0.60	0.40 ~ 1.00	> 0.04
CrMo chilled duplex spun-cast SG cast iron rolls	3.20 ~ 3.70	0.50 ~ 1.20	0.50 ~ 1.00	≤0.40	≤0.03	~	0.20 ~ 0.80	0.20 ~ 0.60	> 0.04
NiCrMo chilled duplex static-cast SG cast iron rolls	3.20 ~ 3.70	0.50 ~ 1.20	0.50 ~ 1.00	≤0.40	≤0.03	0.5 ~ 1.00	0.20 ~ 0.80	0.20 ~ 0.60	> 0.04
Ferrite duplex static-cast SG cast iron rolls	2.90 ~ 3.60	1.00 ~ 2.20	0.50 ~ 1.00	≤0.10	≤0.03	1.0 ~ 3.00	0.10 ~ 0.60	0.40 ~ 1.00	> 0.04
Pearlite duplex static-cast SG cast iron rolls	2.90 ~ 3.60	1.00 ~ 2.20	0.50 ~ 1.00	≤0.10	≤0.03	2.0 ~ 3.00	0.10 ~ 0.60	0.40 ~ 1.00	> 0.04

## 2、 Physical properties

Designation of rolls	Barrel hardness	Neck hardness	Tensile strength (core) Mpa
NiCrMo chilled duplex spun-cast cast iron rolls	70 ~ 85	35 ~ 48	>300
NiCrMo indefinite chilled duplexspun-cast cast iron rolls	65 ~ 85	35 ~ 48	>300
NiCrMo duplex spun-cast SG cast iron roll ( )	55 ~ 75	35 ~ 48	>400
NiCrMo duplex spun-cast SG cast iron roll ( )	60 ~ 80	35 ~ 48	>400
CrMo chilled duplex spun-cast SG cast iron rolls	58 ~ 70	35 ~ 48	>300
NiCrMo chilled duplex static-cast SG cast iron rolls	60 ~ 72	35 ~ 48	>300
Ferrite duplex static-cast SG cast iron rolls	45 ~ 55	35 ~ 48	>400
Pearlite duplex static-cast SG cast iron rolls	55 ~ 65	35 ~ 48	>400

### 3、Microstructure

Designation of rolls	Microstructure
NiCrMo chilled duplex spun-cast cast iron rolls	martensite+small percentage bainite+cementite
NiCrMo indefinite chilled duplexspun-cast cast iron rolls	bainite +small percentage martensite +cementite+small percentage graphite
NiCrMo duplex spun-cast SG cast iron roll ( )	bainite +small percentage austenite +cementite+SG
NiCrMo duplex spun-cast SG cast iron roll ( )	bainite +small percentage austenite +cementite+SG
CrMo chilled duplex spun-cast SG cast iron rolls	Pearlite + cementite+ small percentage graphite
NiCrMo chilled duplex static-cast SG cast iron rolls	Pearlite + cementite+ small percentage graphite
Ferrite duplex static-cast SG cast iron rolls	Pearlite + small percentage ferrite+cementite+ small percentage graphite
Pearlite duplex static-cast SG cast iron rolls	Pearlite + cementite+ small percentage graphite

### 4、Application

Designation of rolls	Application
NiCrMo chilled duplex spun-cast cast iron rolls	Work rolls of tempering mill
NiCrMo indefinite chilled duplexspun-cast cast iron rolls	Section mill、 intermediate finishing stands of bar mill、 intermediate and prefinishing stands of wire-rod mill、 narrow strip mill、 finishing stand
NiCrMo duplex spun-cast SG cast iron roll ( )	Section mill、 intermediate finishing stands of bar mill、 intermediate and prefinishing stands of wire-rod mill、 narrow strip mill、 finishing stand、 tube stretch reducing mill
NiCrMo duplex spun-cast SG cast iron roll ( )	Section mill、 intermediate finishing stands of bar mill、 intermediate and prefinishing stands of wire-rod mill、 narrow strip mill、 finishing stand、 tube stretch reducing mill
CrMo chilled duplex spun-cast SG cast iron rolls	Work rolls of hot strip mill、 work rolls finishing stands of plate mill
NiCrMo chilled duplex static-cast SG cast iron rolls	Work rolls of hot strip mill、 work rolls finishing stands of plate mill
Ferrite duplex static-cast SG cast iron rolls	Roughing stands of bar bill and wire-rod mill
Pearlite duplex static-cast SG cast iron rolls	Roughing stands of bar bill and wire-rod mill

## 5、 Scope of supply

Method of manufacturing	Barrel diameter(mm)	Barrel length(mm)
Centrifugal	< $\Phi$ 1000	< 1500
Static double-pout	< $\Phi$ 1000	< 3000

# Graphite Steel Rolls

## 1. Chemical Composition

Grades	C	Si	Mn	P	S	Ni	Cr	Mo
ZuS140SiCrNiMo	1.30~1.50	1.30~1.60	0.50~0.80	≤0.035	≤0.030	0.20~0.60	0.40~0.70	0.20~0.50
ZuS150SiCrNiMo	1.40~1.60	1.00~1.40	0.60~1.00	≤0.035	≤0.030	0.35~1.00	0.60~1.00	0.20~0.50
ZuS160SiCrNiMo	1.50~1.70	1.00~1.40	0.60~1.00	≤0.035	≤0.030	0.50~1.50	0.60~1.60	0.20~0.50
ZuS170SiCrNiMo	1.60~1.80	1.00~1.40	0.60~1.00	≤0.035	≤0.030	0.80~2.00	0.60~2.00	0.20~0.50

## 2. Physical Properties

Grades	Barrel Hardness	Tensile Strength (MPa)
ZuS140SiCrNiMo	36~46	≥660
ZuS150SiCrNiMo	40~50	≥660
ZuS160SiCrNiMo	42~52	≥550
ZuS170SiCrNiMo	45~55	≥550

## 3. Microstructure

Microstructure of working layer in the barrel: pearlite + SG + carbide

## 4. Application

For hot strip mill, two high reversing stands of plate mill, roughing mill, billet rolling mill, section mill, bar mill, and roughing stands of high speed wire rod mill.

## 5. Scope of Supply

Barrel Diameter ≤  $\phi$  1350mm

Barrel length ≤ 3000mm

# High Chrome Iron (Enhanced) Duplex Spun-cast

## Typical Chemical Composition

Code	HSC	C	Si	Mn	Ni	Cr	Mo
CS1	65-85	2.4/2.9	0.4/0.9	0.7/1.5	0.7/1.5	14/20	0.7/2.0
CS2	75/95	2.6/3.0	0.6/1.1	0.5/1.2	1.0/2.0	16/22	1.5/3.5

## Typical Mechanical Properties

Properties	N/mm <sup>2</sup>		
	barrel	Neck/corel	
		grey cast iron	SG Cast Iron
tensile strength	850	240	425
bending strength	1300	350	835

## Microstructure

Bainite+martensite+carbide

Tempered martensite+eutectic carbide+small amount secondary carbide

## Application

CS1 Work rolls for roughing stands and front finishing stands of hot strip mill, work rolls for wide and medium plate mill

CS2 Work rolls for cold strip mill, and for tempering mill

## Scope of Supply

Barrel Diameter ≤  $\varnothing$  1350mm

Barrel Length 1000-4000mm

# Alloy Indefinite Chilled Cast Iron Rolls

## Chemical Composition

Rolls Types	C	Si	Mn	P	S	Ni	Cr	Mo
CrMo Indefinite Chilled Cast Iron Rolls	3.20~3.70	0.80~1.20	0.60~1.00	≤0.020	≤0.010		0.60~1.20	0.20~0.60
NiCrMoIndefinite Chilled Cast Iron Rolls I	3.20~3.70	0.80~1.20	0.60~1.00	≤0.020	≤0.010	0.50~1.00	0.70~1.20	0.20~0.60
NiCrMo Indefinite Chilled Cast Iron Rolls II	3.20~3.70	0.60~1.00	0.60~1.00	≤0.020	≤0.010	1.01~2.00	0.70~1.20	0.20~0.60
NiCrMo Indefinite Chilled Cast Iron Rolls III	3.20~3.70	0.60~1.00	0.60~1.00	≤0.020	≤0.010	2.01~3.00	0.70~1.20	0.20~0.60

## Physical Properties

Rolls Types	Barrel Hardness	Neck hardness	Tensile Strength
CrMo Indefinite Chilled Cast Iron Rolls	55~70	35~55	> 160
NiCrMoIndefinite Chilled Cast Iron Rolls I	60~72	35~55	> 160
NiCrMo Indefinite Chilled Cast Iron Rolls II	62~72	35~55	> 160
NiCrMo Indefinite Chilled Cast Iron Rolls III	65~75	35~55	> 160

## Microstructure

Rolls Types	Metallographical Structure
CrMo Indefinite Chilled Cast Iron Rolls	Pearlite+cementite+small percentage graphite
NiCrMoIndefinite Chilled Cast Iron Rolls I	Pearlite+cementite+small percentage graphite
NiCrMo Indefinite Chilled Cast Iron Rolls II	Pearlite+cementite+small percentage graphite
NiCrMo Indefinite Chilled Cast Iron Rolls III	Pearlite+cementite+small percentage graphite

## Application

Rolls Types	Application
CrMo Indefinite Chilled Cast Iron Rolls	Section mill, bar mill, intermediate and finishing stands of wire-rod mill

ADD: Room 118 , No.12-1, Changjiang Road, Zhongshan District, Dalian-116001, China. Email: markma@cimmuk.com  
 TEL: +86 411 82629015/82629210/82629211 FAX: +86 411 82629018 http: [www.cimmuk.com](http://www.cimmuk.com) / [www.cmmco.cn](http://www.cmmco.cn)

NiCrMoIndefinite Chilled Cast Iron Rolls I	Section mill, bar mill, intermediate and finishing stands of wire-rod mill
NiCrMo Indefinite Chilled Cast Iron Rolls II	Section mill, bar mill, intermediate and finishing stands of wire-rod mill
NiCrMo Indefinite Chilled Cast Iron Rolls III	Section mill, bar mill, intermediate and finishing stands of wire-rod mill, tub stretch reducing mill

### Scope of Supply

Barrel Diameter ≤  $\phi$  1000mm

Barrel length ≤ 3000mm

# Chilled Cast Iron roller for Rubber Mixing Mill

## Chemical Composition

C	Si	Mn	P	S	Cu	Cr
3.6-3.8	0.5-0.6	0.3-0.4	0.4	<=0.1	0.3-0.6	0.4-0.65

## Application

Be used in rubber mixing mill