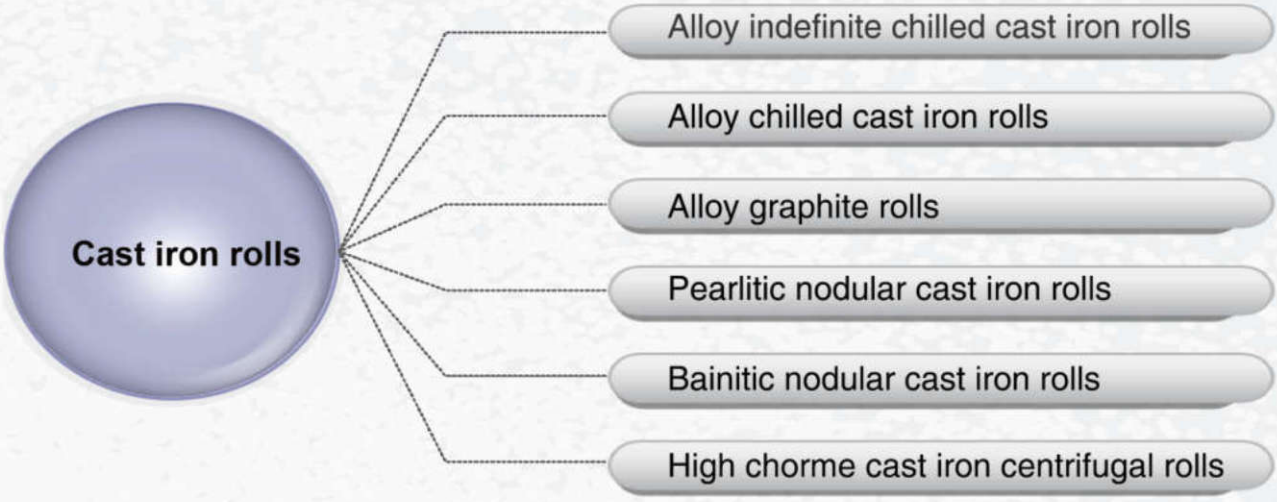
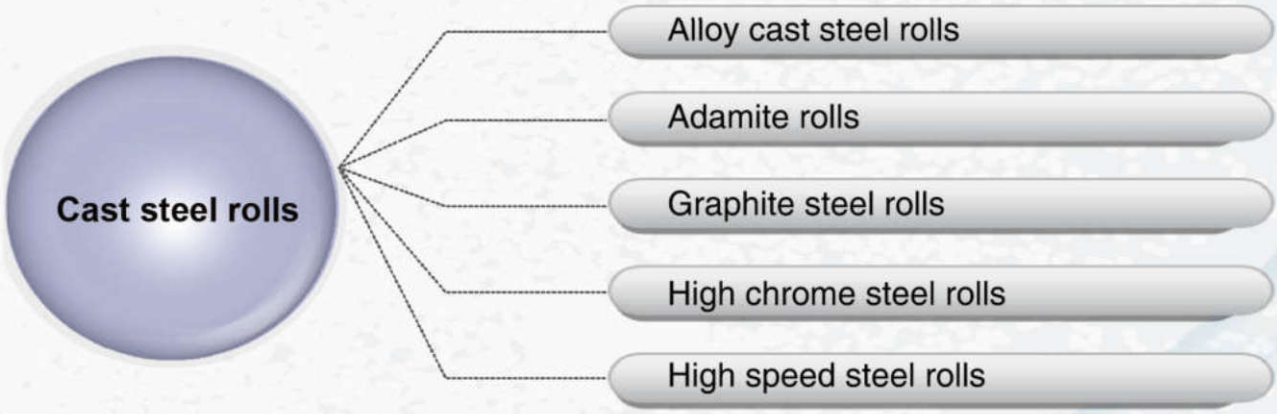
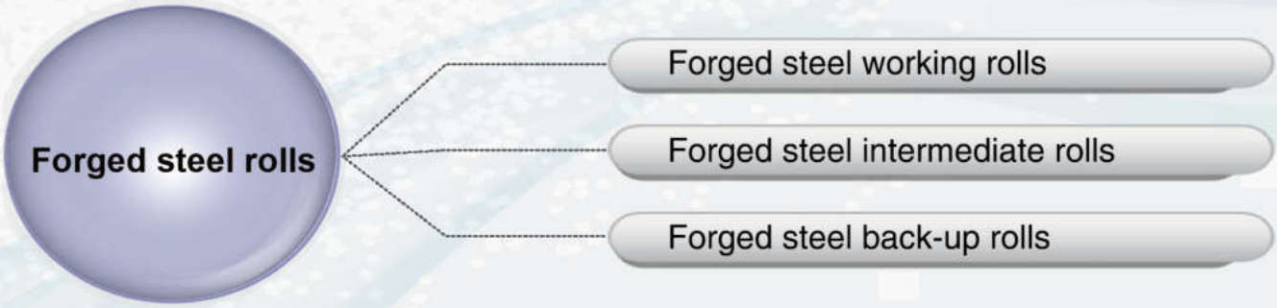
Products Catalogue







Alloy Indefinite Chilled Cast Iron Rolls

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
AIC Ⅰ	Ni CrMo	3.1-3.4	0.6-0.9	0.5-1.0	0.7-1.3	0.8-2.0	0.2-0.6
AIC Ⅱ	Ni CrMo	3.1-3.4	0.6-1.0	0.5-1.0	0.7-1.5	2.1-3.0	0.2-0.6
AIC Ⅲ	Ni CrMo	3.1-3.4	0.6-1.0	0.5-1.0	0.8-1.3	3.1-4.5	0.2-1.0
SAIC	Super AIC	3.1-3.4	0.8-1.3	0.5-1.0	1.2-2.0	3.5-4.5	0.3-1.0

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
AIC Ⅰ	Ni CrMo	55-72HSD	35-55HSD	>160	Small steel, wire rods and finishing
AIC Ⅱ	Ni CrMo	55-72HSD	35-55HSD	>160	Small steel, wire rods and finishing hot rolled plate,strip mill
AIC Ⅲ	Ni CrMo	65-78HSD	35-55HSD	>350	Small steel, wire rods and finishing hot rolled sheets, strip finishing mill
SAIC	Super AIC	73-83HSD	35-55HSD	>350	Wire rod finishing hot rolled sheets, strip finishing mill

Roll diameter ≤1400mm; Roll length ≤4600mm

Alloy Chilled Cast Iron Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
CC Ⅰ	NiCrMo Chilled cast iron roll Ⅰ	3.00-3.40	0.30-0.80	0.20-1.00	0.20-0.60	0.50-1.00	0.20-0.60
CC Ⅱ	NiCrMo Chilled cast iron roll Ⅱ	3.00-3.40	0.30-0.80	0.20-1.00	0.30-1.20	1.10-2.00	0.20-0.60
CCⅢ	NiCrMo Chilled cast iron rollⅢ	3.00-3.40	0.30-0.80	0.20-1.00	0.50-1.50	2.10-3.00	0.20-0.60
CCⅣ	NiCrMo Chilled cast iron rollⅣ	3.00-3.40	0.30-0.80	0.20-1.00	0.50-1.70	3.10-4.00	0.20-0.60

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
CC Ⅰ	NiCrMo Chilled cast iron roll Ⅰ	60-70 HSD	32-50 HSD	>150	Profile material, Rods and bars, Wire rod rolling mill and narrow strip steel rolling mill finishing stand
CC Ⅱ	NiCrMo Chilled cast iron roll Ⅱ	62-75 HSD	35-52 HSD	>150	
CCⅢ	NiCrMo Chilled cast iron rollⅢ	65-80 HSD	32-45 HSD	>350	
CCⅣ	NiCrMo Chilled cast iron rollⅣ	70-85 HSD	32-45 HSD	>350	

Roll diameter ≤500mm; Roll length ≤1000mm

Alloy Graphite Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo	Mg
SG Ⅱ	CrMo indefinite chilled nodular cast iron roll	3.00-3.40	1.40-1.90	0.20-0.80	0.20-0.60		0.20-0.60	≥0.04
SGⅣ	CrMo indefinite chilled nodular cast iron roll Ⅰ	3.00-3.40	1.40-1.90	0.40-0.80	0.20-0.60	0.50-1.00	0.20-0.60	≥0.04
SG Ⅴ	CrMo indefinite chilled nodular cast iron roll Ⅱ	3.00-3.40	1.40-1.90	0.40-0.80	0.30-1.00	1.10-2.00	0.20-0.60	≥0.04

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
SG Ⅱ	CrMo indefinite chilled nodular cast iron roll	50-70 HSD	35-55 HSD	＞320	Profile material, Rods and bars, Wire rod and narrow strip steel rolling mill set, Intermediate rolling stand
SGⅣ	CrMo indefinite chilled nodular cast iron roll Ⅰ	55-70 HSD	35-55 HSD	＞320	
SG Ⅴ	CrMo indefinite chilled nodular cast iron roll Ⅱ	60-70 HSD	35-55 HSD	＞320	

Roll diameter ≤1500mm; Roll length ≤3000mm

Pearlitic Nodular Cast Iron Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo	Mg
SGP Ⅰ	Pearlitic nodular cast iron roll Ⅰ	3.00-3.40	1.40-1.90	0.40-0.80	0.20-0.60	1.50-2.00	0.20-0.60	≥0.04
SGP Ⅱ	Pearlitic nodular cast iron roll Ⅱ	3.00-3.40	1.20-2.00	0.40-0.80	0.20-1.00	2.01-2.50	0.20-0.60	≥0.04
SGPⅢ	Pearlitic nodular cast iron roll Ⅲ	3.00-3.40	1.00-2.00	0.40-0.80	0.20-1.20	2.51-3.00	0.20-0.60	≥0.04

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
SGP Ⅰ	Pearlitic nodular cast iron roll Ⅰ	45-55 HSD	35-55 HSD	＞450	Profile material, Rods and bars, Wire rod and narrow strip steel rolling mill set, Intermediate rolling stand
SGP Ⅱ	Pearlitic nodular cast iron roll Ⅱ	55-65 HSD	35-55 HSD	＞450	
SGPⅢ	Pearlitic nodular cast iron roll Ⅲ	62-72 HSD	35-55 HSD	＞450	

Roll diameter ≤1500mm; Roll length ≤3000mm

Bainitic Nodular Cast Iron Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo	Mg
SGA Ⅰ	Bainitic nodular centrifugal compound cast iron roll Ⅰ	3.00-3.40	1.20-2.20	0.40-0.80	0.20-0.80	3.01-3.50	0.50-1.00	≥0.04
SGA Ⅱ	Bainitic nodular centrifugal compound cast iron roll Ⅱ	3.00-3.40	1.00-2.00	0.40-0.80	0.20-1.00	3.51-4.50	0.50-1.00	≥0.04

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
SGA Ⅰ	Bainitic nodular centrifugal compound cast iron roll Ⅰ	55-78 HSD	32-45 HSD	＞350	Profile material, Rods and bars, Wire rolling mill rough rolling, Intermediate rolling, Pre-finishing mill stand, Seamless steel tube tandem mill reducing-sizing stand
SGA Ⅱ	Bainitic nodular centrifugal compound cast iron roll Ⅱ	60-80 HSD	32-45 HSD	＞350	

Roll diameter ≤1500mm; Roll length ≤3000mm

High Chrome Cast Iron Centrifugal Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
HCr Ⅰ	High Chrome cast iron centrifugal roll Ⅰ	3.00-3.30	0.30-1.00	0.50-1.20	12.00-15.00	0.70-1.70	0.70-1.50
HCr Ⅱ	High Chrome cast iron centrifugal roll Ⅱ	3.00-3.30	0.30-1.00	0.50-1.20	15.01-18.00	0.70-1.70	0.70-1.50
HCrⅢ	High Chrome cast iron centrifugal roll Ⅲ	3.00-3.30	0.30-1.00	0.50-1.20	18.01-22.00	0.70-1.70	1.51-3.00

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
HCr Ⅰ	High Chrome cast iron centrifugal roll Ⅰ	60-75 HSD	32-45 HSD	＞350	Profile material, Rods and bars, Wire rod rolling mill finishing stand, Hot strip tandem rolling rough rolling, Working roll in the front part of finishing rolling mill, Working roll for wide/mid-thick plate rolling mill
HCr Ⅱ	High Chrome cast iron centrifugal roll Ⅱ	65-80 HSD	32-45 HSD	＞350	
HCrⅢ	High Chrome cast iron centrifugal roll Ⅲ	75-90 HSD	32-45 HSD	＞350	

Roll diameter ≤1500mm; Roll length ≤4300mm

Alloy Cast Steel Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
AS60	60CMoMn	0.55-0.65	0.20-0.45	0.90-1.20	0.80-1.20		0.20-0.45
AS60 Ⅰ	60CrNiMnMo	0.55-0.65	0.20-0.60	0.60-2.00	1.40-2.20	Max.0.6	0.30-0.60
AS65 Ⅰ	65CrNiMo	0.60-0.70	0.20-0.60	0.50-0.80	0.18-1.20	0.20-0.50	0.20-0.45
AS70	70Mn	0.65-0.75	0.20-0.45	0.80-1.40			
AS70 Ⅰ	70Mn2	0.65-0.75	0.20-0.45	1.40-1.80			
AS70 Ⅱ	70Mn2Mo	0.65-0.75	0.20-0.45	1.40-1.80	-		0.20-0.45
AS75	75CrMo	0.70-0.80	0.20-0.45	0.60-0.90	0.75-1.00	-	0.20-0.60
AS75 Ⅰ	75CrNiMnMo	0.70-0.80	0.20-0.70	0.70-1.10	0.80-1.50	0.20-0.80	0.20-0.60
AS75 Ⅱ	75Cr3NiMo	0.70-0.80	0.20-0.60	0.70-1.10	1.50-3.60	0.40-1.00	0.20-0.80

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
AS60	60CMoMn	35-50 HSD	Max.45HSD	＞650	Rods and bars, Wire material, Strip steel, Plate strip, Profile steel rough rolling
AS60 Ⅰ	60CrNiMnMo	35-45.55HSD	Max.45HSD	＞700	
AS65 Ⅰ	65CrNiMo	35-45 HSD	Max.45HSD	＞750	
AS70	70Mn	32-42 HSD	Max.45HSD	＞650	
AS70 Ⅰ	70Mn2	35-45 HSD	Max.45HSD	＞680	
AS70 Ⅱ	70Mn2Mo	35-45 HSD	Max.45HSD	＞700	
AS75	75CrMo	35-50 HSD	Max.45HSD	＞700	Rods and bars, Wire material, Strip steel, Plate strip, Profile steel rough rolling, Narrow strip steel support roll
AS75 Ⅰ	75CrNiMnMo	35-50 HSD	Max.45HSD	＞800	Rods and bars, Wire material, Strip steel, Plate strip, Profile steel rough rolling, Narrow strip steel support roll
AS75 Ⅱ	75Cr3NiMo	35-50 HSD	Max.45HSD	＞800	

Roll diameter ≤1500mm; Roll length ≤3000mm

Adamite Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
AD140Ⅰ	B140CrNiMo	1.30-1.50	0.30-0.60	0.70-1.10	0.80-1.20	0.50-1.20	0.20-0.60
AD160Ⅰ	B160CrNiMo	1.50-1.70	0.30-0.60	0.80-1.30	0.80-2.00	≥0.20	0.20-0.60
AD180	B180CrNiMo	1.70-1.90	0.30-0.80	0.60-1.10	0.80-1.50	0.20-2.00	0.20-0.60
AD190	B190CrNiMo	1.80-2.00	0.30-0.80	0.60-1.20	1.50-3.50	1.00-2.00	0.20-0.50
AD200	B200CrNiMo	1.90-2.10	0.30-0.80	0.80-1.20	0.60-2.00	0.60-2.50	0.20-0.80

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
AD140Ⅰ	B140CrNiMo	35-50 HSD	Max.60HSD	500-800	Rods and bars, Wire material, Profile steel, Plate strip rough rolling, Vertical Roll
AD160Ⅰ	B160CrNiMo	40-60HSD	Max.50HSD	500-800	Rods and bars, Wire material, Profile steel, Plate strip rough intermediate rolling, Vertical Roll, Roll collar, Support roll
AD180	B180CrNiMo	45-60 HSD	Max.50HSD	450-700	
AD190	B190CrNiMo	50-65 HSD	Max.50HSD	450-700	
AD200	B200CrNiMo	50-65 HSD	Max.50HSD	450-700	

Roll diameter ≤1800mm; Roll length ≤3000mm

Graphite Steel Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
GS140	S140CrNiMo	1.30-1.50	1.30-1.60	0.50-0.80	0.40-0.70		0.20-0.50
GS160	S160CrNiMo	1.50-1.70	0.80-1.50	0.60-1.00	0.50-1.50	0.20-1.00	0.20-0.80
GS190	S190CrNiMo	1.80-2.00	0.80-1.50	0.60-1.00	0.50-2.00	0.60-2.2.	0.20-0.80

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
GS140	S140CrNiMo	36-46 HSD	Max.46 HSD	≥540	Intermediate-small-sized profile steel, Rod wire rough rolling mill, Hot-rolling strip steel shaping roll, Roller cover of universal rolling mill
GS160	S160CrNiMo	45-55 HSD	Max.50 HSD	≥500	
GS190	S190CrNiMo	50-65 HSD	Max.50 HSD	≥450	

Roll diameter ≤1800mm; Roll length ≤3000mm

High Chrome Steel Roll

Chemical Composition

Code	Material	C	Si	Mn	Cr	Ni	Mo
CS	HCrS	1.00-1.80	0.40-1.00	0.50-1.00	8.00-15.00	0.50-1.50	1.50-4.50

Physical Property and Application

Code	Material	Roll Body Hardness	Roll Neck Hardness	Tensile Strength	Range of Application
CS	HCrS	70-85 HSD	35-45 HSD	≥450	Hot-rolling strip steel rough rolling, Working roll in the front part of finishing rolling mill, Working roll for wide/mid-thickness rolling mill, Mill roll of universal rolling mill for profile steel

Roll diameter ≤1500mm; Roll length ≤4300mm