

# A494 CZ100

## CHEMICAL COMPOSITION

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Carbon	1.00% Max
Manganese	1.50% Max
Silicon	2.00% Max
Phosphorus	0.03% Max
Sulfur	0.02% Max
Nickel	95.0% Min
Copper	1.25% Max
Iron	3.00% Max

## PHYSICAL PROPERTIES

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Tensile Strength	50,000 PSI Min
Yield Strength	18,000 PSI Min
Elongation at 2in.	10.0% Min

# A494 M30C

## CHEMICAL COMPOSITION

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Carbon	0.30% Max
Manganese	1.50% Max
Silicon	1.0 – 2.0%
Phosphorus	0.03% Max
Sulfur	0.02% Max
Nickel	Balance
Copper	26.0 – 33.0%
Columbium	3.50% Max
Iron	1.0 – 3.0%

## PHYSICAL PROPERTIES

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Tensile Strength	65,000 PSI Min
Yield Strength	32,500 PSI Min
Elongation at 2in.	25.0% Min

# A494 N7M

## CHEMICAL COMPOSITION

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Carbon	0.07% Max
Manganese	1.00% Max
Silicon	1.00% Max
Phosphorus	0.030% Max
Sulfur	0.020% Max
Nickel	Balance
Chromium	1.0% Max
Molybdenum	30.0 – 33.0%
Iron	3.00% Max

## PHYSICAL PROPERTIES

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Tensile Strength	76,000 PSI Min
Yield Strength	40,000 PSI Min
Elongation at 2in.	20.0% Min

# A494 CW12MW

## CHEMICAL COMPOSITION

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Carbon	0.12% Max
Manganese	1.00% Max
Silicon	1.00% Max
Phosphorus	0.030% Max
Sulphur	0.020% Max
Nickel	Balance
Chromium	15.5 – 17.5%
Molybdenum	16.0 – 18.0%
Vanadium	0.20 – 0.40%
Tungsten	3.75 – 5.25%
Iron	4.5 – 7.5%

## PHYSICAL PROPERTIES

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Tensile Strength	72,000 PSI Min
Yield Strength	40,000 PSI Min
Elongation at 2in.	4.0% Min

# A494 CW2M

## CHEMICAL COMPOSITION

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Carbon	0.02% Max
Manganese	1.00% Max
Silicon	0.80% Max
Phosphorus	0.03% Max
Sulfur	0.02% Max
Nickel	Balance
Chromium	15.0 – 17.5%
Molybdenum	15.0 – 17.5%
Tungsten	1.0% Max
Iron	2.0% Max

## PHYSICAL PROPERTIES

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Tensile Strength	72,000 PSI Min
Yield Strength	40,000 PSI Min
Elongation at 2in.	20.0% Min

# A494 CW6MC

## CHEMICAL COMPOSITION

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Carbon	0.06% Max
Manganese	1.00% Max
Silicon	1.00% Max
Phosphorus	0.015% Max
Sulfur	0.015% Max
Nickel	Balance
Chromium	20.0 – 23.0%
Molybdenum	8.0 – 10.0%
Columbium	3.15 – 4.50%
Iron	5.0% Max

## PHYSICAL PROPERTIES

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Tensile Strength	70,000 PSI Min
Yield Strength	40,000 PSI Min
Elongation at 2in.	25.0% Min

# A560 50CR-50NI

## CHEMICAL COMPOSITION

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Carbon	0.10% Max
Manganese	0.30% Max
Silicon	1.00% Max
Phosphorus	0.02% Max
Sulfur	0.02% Max
Nickel	Balance
Chromium	48.0 – 52.0%
Nitrogen	0.30% Max
Aluminum	0.25% Max
Titanium	0.50% Max
Iron	1.00% Max

## PHYSICAL PROPERTIES

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Tensile Strength	80,000 PSI Min
Yield Strength	50,000 PSI Min
Elongation at 2in.	5.0% Min