

# ASTM A563 GR A HEX & HEAVY HEX NUT

CARBON STEEL

## MECHANICAL PROPERTIES

GRADE	NOMINAL SIZE	STYLE OF NUT	PROOF LOAD STRESS, KSI		HARDNESS			
			NON ZINC COATED NUTS	ZINC-COATED NUTS	BRINELL MIN	BRINELL MAX	ROCKWELL MIN	ROCKWELL MAX
	NUTS WITH UNC, 8 UN, 6 UN AND COARSER PITCH THREADS							
A	¼ TO 1-1/2	HEX	90	68	116	302	B68	C32
A	¼ TO 4	HEAVY HEX	100	75	116	302	B68	C32

## CHEMICAL PROPERTIES

ELEMENT	HEAT	PRODUCT
CARBON %	0.55 MAX	0.58 MAX
MANGANESE %	.....	.....
PHOSPHORUS %	0.12 MAX	0.13 MAX
SULFUR %	0.15 MAX SULFUR CONTENT OF 0.23% MAX IS ACCEPTABLE WITH THE PURCHASERS APPROVAL	.....

A563 GR A NUTS ARE INTENDED FOR USE ON GENERAL STRUCTURAL AND MECHANICAL BOLTS, STUDS, AND OTHER EXTERNALLY THREADED PARTS. A563 GR A NUTS ARE SUPPLIED IN A HEX OR HEAVY HEX PATTERN PER ASME B18.2.2 STANDARD FOR SQUARE AND HEX NUTS. A563 GR A NUTS ARE NORMALLY USED WITH A307A AND A307B BOLTS AND STUDS.

*NOTE: PROPERTIES AND APPLICATION PARAMETERS ARE TYPICAL AND ARE PRESENTED IN GOOD FAITH BUT NO WARRANTY IS EXPRESSED OR IMPLIED.*