

HMX

(Homocyclonite Octogen)

Requirements per Military Specification, HMX, MIL-H-45444B

1. Melting point – 277°C, min.
2. Total acetone insoluble material – 0.05%, max.
3. Inorganic insoluble material – 0.03%, max.
4. Insoluble particles – no insoluble particles retained on U.S. Standard No. 40 sieve. U.S. Standard No. 60 sieve, 5 max.
5. Acidity, as acetic acid – 0.02%, max.
6. HMX classification Grade A – 93% minimum purity
Grade B – 98% minimum purity
7. Particle size distribution:

HMX – Particle Size

Through U.S. Standard Sieve Number	Class 1 %	Class 2 %	Class 3 %	Class 4 %	Class 5 %	Class 6 %
8	-	-	-	100	-	-
12	-	-	99 min	85 min	-	99 min
35	-	-	-	40-10	-	-
50	96-84	100	55-25	-	-	90 min
100	60-40	-	30-10	15 max	-	30-50
120	-	98 min	-	-	-	
200	26-14	-	20 max	-	-	45-15
325	13-3	75 min	-	-	98 min	25-5